

# concrete DECOR®

THE JOURNAL  
OF DECORATIVE  
CONCRETE

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Polishing a Soft Floor pg. 54

Museum Walls pg. 82

Vol. 11 No. 4 May/June 2011

## How texture affects color







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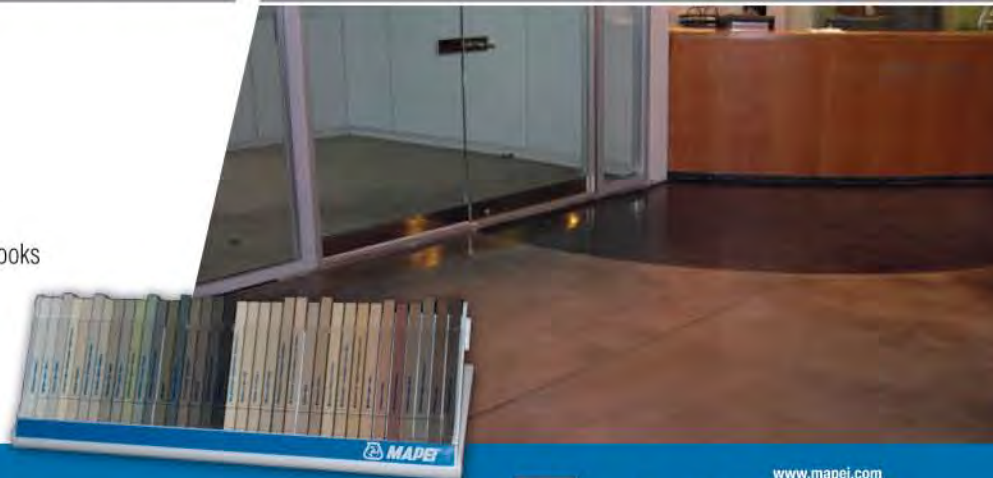
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# publisher's LETTER

## Dear Readers,

After the Concrete Decor Show in Nashville, I decided that I needed to get myself back into a sport where I had some accountability to others. It had become apparent that I could not stay on a regular exercise program by myself. With so many things to do every day, I was finding it way too easy to put other priorities in front of my own.

Taking a few days off after the show, I found what I was looking for in the morning newspaper. Dexter Lake, east of Eugene, Ore., was hosting a rowing competition for high schools, colleges and masters (over-the-hill folks). It has been 24 years since I competed in college, but I am back on the water again. In just over one month I have lost 7 pounds and regained a lot of endurance. While I still have a long way to go in getting myself back into the competitive circuit, our men's 8 team finished third at the Gold Rush Masters Regatta in May in Sacramento, Calif.

Rowing successfully is a combination of strength, endurance and technique. When any one of these three starts to fade, they all do. What generally happens is that when a rower starts to fatigue, he attempts to speed up, rowing faster in an attempt to compensate for a lack of control or strength. In rowing terms this is often seen when an individual starts to "rush the slide," an attempt to get the oar moving faster but without the power. Once this is happening, the boat is no longer balanced. Oars start bumping the surface of the water on either side and everyone in the boat becomes frustrated.

As you can imagine, there are a number of correlations we can all draw from this kind of experience. When I was visiting with Buddy Rhodes earlier this week he stated that countertop fabricators rarely follow up with customers to conduct maintenance and resealing of concrete countertops. It occurred to me that this can often be said about stamped concrete applicators as well. It seems that contractors are generally more interested in getting to the next big-dollar job, thus losing sight of other important aspects of their business.

It's critical to remember that quality workmanship needs little effort to perpetuate itself. It was my experience when I was contracting that when I got too much work out ahead of me, I began to overlook important details such as a prior customer calling to ask when I could stop by to look at some additional work or simply answer a question.

When we become overly anxious about where that next big job is coming from, we often lose sight of important relationships that are imperative to our ongoing success. In other words, we start to rush the slide.

Sincerely,



Bent Mikkelsen  
Publisher



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Photo courtesy of Chris Sullivan





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# concrete DECOR® EXPERTS



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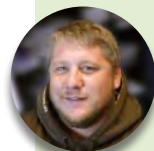
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## What Membership in an Industry Association Can Mean for Decorative Concrete Contractors

**M**embership in an industry association or society offers numerous opportunities for education, peer networking, and accessing a wealth of information that helps us grow professionally.

There are several organizations that support concrete contractors and concrete construction. Each organization has a unique focus, so understanding their missions and member benefits allows you to choose which organization will best serve your personal and business goals.

### ASCC Decorative Concrete Council

The Decorative Concrete Council, a specialty council of the American Society of Concrete Contractors (ASCC), is solely dedicated to the issues and needs of the decorative concrete industry.

Established in 1998, the DCC's initial efforts were oriented toward contractor education and the promotion of decorative concrete to design professionals — architects, landscape architects, interior designers and engineers. Today, architectural promotion and technical training are still important, according to ASCC executive director Bev Garnant, but emphasis is also placed on helping concrete contractors become better businessmen. "Contractors often excel at their craft," says Garnant, "but



by Howard Jancy,  
CSI, CDT

without an understanding of job costing, estimating, reading a contract, budgeting or negotiating, their businesses can struggle or even fail. These are very important business skills, particularly in today's economy."

An annual conference serves as the primary educational and training event for members. Technical and business seminars are on the agenda, as are evening social events, where there are opportunities to meet and network with contractors from around the country. The more casual gatherings are an excellent way for new members to meet other concrete contractors that have experienced the same challenges. "The open exchange of suggestions and advice between members is an incredible benefit of being part of the ASCC/DCC," Garnant says.

Additional member benefits:

- Technical hotline: Calls addressed by ASCC technical director Ward Malisch, P.E., Ph.D.
- Safety hotline: Calls addressed by a Safety Council comprised of contractor members of the association. The council addresses safety questions related to concrete construction: fall safety, cement burns, pump safety and so on, as well as applicable OSHA regulations.
- E-mail forum: Questions are answered by other contractors
- Webinar series: Conducted monthly, each 45 to 60 minutes long, primarily focusing on business issues
- Decorative Concrete Awards program: An annual event at the World of Concrete convention

- MIX Groups (MIX stands for "Member Information Exchange"): Small groups (of five to 10 noncompeting contractors) focused on issues of the group members

### International Concrete Repair Institute

The mission of the International Concrete Repair Institute (ICRI) is to improve the quality of concrete restoration, repair and protection. Even though it is not an organization oriented toward decorative concrete,



ICRI does provide support and technical information that could be important to the concrete craftsman, particularly if you install overlays, coatings, or even stains or dyes on existing concrete.

ICRI executive director Kelly Page believes that tech guideline 310.2-1997, a guideline for "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays," is an important publication for any concrete technician who requires precise surface preparation methods for successful product installations. The guideline details the best practices for achieving the proper surface requirements for specific materials.

As a supplemental aid to the technical bulletin, Concrete Surface Profile Chips are available. Fabricated from flexible molded rubber, the textured chips display varying surface profiles as discussed in the guideline. It's a great visual aid to help you explain surface prep requirements and results in very clear communication with property owners and architects.

ICRI also offers its members a moisture-testing program for concrete



slabs. The program provides contractors the knowledge and skills to better assess concrete-floor moisture conditions prior to applying floor coverings such as overlays, coatings and sealers. Contractors certified as ICRI Concrete Slab Moisture Testing Technicians are able to perform, record and interpret the four standard ASTM-designated moisture tests. "Attaining the certification provides many advantages for the concrete contractor," says Kelly. "It significantly minimizes moisture-related product failures, and it is a good way for contractors to differentiate themselves from their competition."

Additional member benefits:

- Numerous technical bulletins are available.
- Concrete Repair Bulletin is a bimonthly magazine featuring case studies, industry news and product information.
- The association's 32 chapters offer the opportunity to network with local professionals.

## American Concrete Institute

Probably the oldest organization for this industry, the American Concrete Institute was established in 1904 to advance concrete



American Concrete Institute®

knowledge by conducting

seminars, managing certification programs and publishing technical documents. The organization is represented in 108 countries.

ACI executive vice president Ron Burg, P.E., says that ACI's most important member benefit is access to more than 120 technical, education and certification committees. "Participation on the committees provides a voice for contractors whose business is directly affected by the products, programs and standards produced by those committees," he says.

ACI 302 Construction of Concrete Floors, ACI 303 Architectural Cast-in-Place Concrete, ACI 308 Curing Concrete and ACI 310 Decorative Concrete are examples of committees related to concrete finishing. Burg says he encourages contractor involvement because contractors bring hands-on field experience to the discussions.

ACI provides Concrete Flatwork Finisher/Technician certification and related study material that addresses basic concrete technology. ACI is also developing a certification program for decorative concrete finishers and a craftsman-oriented guide for the installation of decorative concrete. The guide will serve as the primary study resource for certification candidates. The certification process hones a contractor's knowledge and skills and is a credential valued by employers, architects, engineers and property owners.

Additional member benefits:

- ACI's 98 chapters offer local opportunities for networking and professional growth.
- Seminars, training and certification are conducted year-round nationally.
- Online programs, such as continuing education and webinars.
- A bookstore with an extensive collection of concrete-construction publications.

## Construction Specifications Institute

Lastly, if you are involved in architectural marketing — that is, promoting your products and expertise to designers and providing design consultation — then I feel a membership in the Construction Specifications Institute is invaluable. CSI's membership comprises architects and specification writers, product reps and contractors. CSI has local chapters throughout the country. There are numerous opportunities to interact with the members: monthly meetings, technical, educational and social events, and even regional product shows. Being visible at these types of gatherings often makes it easier to get an appointment with an architect, since he or she already knows you.




The Construction Specifications Institute

CSI also offers Construction Documents Technology (CDT) certification, which provides comprehensive knowledge about the writing and management of construction documents. Architects recognize this credential, which, again, facilitates appointments with a design team for a project.

## Benefit through participation

These are just a few associations that support our industry. All offer opportunities for education, so you can grow professionally, and networking, so you can grow your business. I am sure there are other organizations in your local market that would be important too.

Once you join an organization, remember, the greatest benefits are derived from your direct involvement or participation in the group. Attend meetings, be visible. Volunteer your time on committees. Become an officer or director. Mentor the new guy. Ask questions, but also be generous with your knowledge. 

**American Society of Concrete Contractors:**

 [www.ascconline.org](http://www.ascconline.org)

**American Concrete Institute:**

 [www.concrete.org](http://www.concrete.org)

**Construction Specifications Institute:**

 [www.csinet.org](http://www.csinet.org)

**International Concrete Repair Institute:**

 [www.icri.org](http://www.icri.org)

*Howard Jancy, manufacturers' representative and architectural consultant, is principal of Jancy & Associates and has 27 years of experience with materials for concrete repair, maintenance and decorative enhancement. He belongs to the Construction Specification Institute (CSI) Chicago Chapter and chairs the chapter's industry round table that provides professional development for building-material manufacturers and suppliers. He is also a CSI-certified Construction Document Technologist (CDT). Jancy can be reached at [howard@jancyassociates.com](mailto:howard@jancyassociates.com).*



# business & INDUSTRY

## Rhino acquires Concrete Solutions

Rhino Linings Corp., a global provider of protective polyurethane, polyurea, polyaspartic and epoxy coatings, has acquired Concrete Solutions Inc., a manufacturer and distributor of products and systems for the restoration, protection and beautification of concrete surfaces.

In addition to an extensive list of product and system offerings such as stamped concrete overlays, decorative resurfacing applications, stains, dyes, stencils and more, Concrete Solutions specializes in monthly training programs and ongoing specialty workshops.

Concrete Solutions has been a leader in the concrete resurfacing industry since 1986. Its durable and user-friendly products are commonly used on driveways, patios, indoor floors, steps and pool decks and have also been responsible for extraordinary results in stadiums, amusement parks, hotels and small businesses.

Concrete Solutions will relocate its operations to Rhino facilities in San Diego, Calif., and Bart Sadleir, its current general manager of operations and training, will oversee the Rhino Concrete Solutions division as general manager.

Terms of the acquisition were not released.

[www.concretesolutions.com](http://www.concretesolutions.com)

[www.rhinolinings.com](http://www.rhinolinings.com)

## Recovery process for construction industry expected to be slow

While the economic recession is over and the economy is strengthening, the construction recession may not run its course for another 18 months, hindering an improvement in cement consumption for the next two years, according to the most recent economic forecast from the Portland Cement Association.

In 2011, PCA anticipates marginal growth with a 2 percent increase in consumption. Consumption is projected

to increase 8.5 percent in 2012 and 18.5 percent in 2013 when all construction sectors — residential, commercial and public — will be on the upswing.

PCA's chief economist Edward Sullivan expects two areas of nonresidential construction to grow in 2011: oil/gas well construction and farm construction.

[www.cement.org](http://www.cement.org)

## American Shotcrete Association announces award winners

The American Shotcrete Association has announced the winners of the Sixth Annual Outstanding Shotcrete Project Awards. The winners are as follows:

Outstanding Infrastructure Project: Décarie Interchange side panel repairs in Montréal, Québec, Canada. Shotcrete contractor and general contractor: Construction Interlag Inc.

Outstanding Pool & Recreational Project: Soundview YMCA in Bradford, Conn. Shotcrete Contractor: Drakeley Industries LLC. General Contractor: ORL Construction.

Outstanding Repair & Rehabilitation Project: Concrete Arch Bridge No. 6.45 over 31st Street in Queens, N.Y. Shotcrete contractor: East Coast Shotcrete, a division of East Coast Gunitite LLC. General contractor: ECI Building Corp.

Outstanding Underground Project: Liberty Tunnels Phase 2 in Pittsburgh, Pa. Shotcrete contractor and general contractor: Mosites Construction Co.

[www.shotcrete.org](http://www.shotcrete.org)

## Surface 519 opens training center

The Surface 519 National Training Center is now open. The facility, centrally located in Des Moines, Iowa, is available to all decorative concrete manufacturers, distributors or artisans for training purposes.

The 28,000-square-foot shop is fully equipped to manufacture countertops,

sinks, fireplaces and more. Roughly 18,000 square feet of that space is designated as a countertop shop.

[www.surface519.com](http://www.surface519.com)

## Concrete Coatings offers CSI product specifications for bids

Concrete Coatings Inc. is now offering Construction Specifications Institute (CSI) three-part specifications for download on its website. The specifications are available in Microsoft Word format for use by a qualified construction specifier.

Specification sections for the company's Vivid Acid Stain, Solvent-Based Acrylic Sealer, DuraWax Acrylic Floor Wax, Micro-Topping and Stamp-Tek Stampable Overlay are currently available.

The purpose of a specification section is to provide architects with product information that they can include in the project manual that goes out to bid. Once the project manual is put together and the project is ready to go, it is sent to contractors requesting a bid. Contractors who see the need for the specified product in the bid specs contact a subcontractor who can perform the required work.

In certain instances, a job may already be specified with another company's products. Concrete Coatings guide specifications can help contractors and subcontractors specify Concrete Coatings products as an equal substitute.

[www.concretecoatingsinc.com](http://www.concretecoatingsinc.com)

## BASF Building Systems unit sponsors Contractor Rewards program

The Building Systems business of BASF's Construction Chemicals Division is now a sponsor of Contractor Rewards, an industry-wide loyalty program that offers trade contractors, builders and remodelers points for purchasing products from participating manufacturers.

Contractor Rewards members can now earn points for BASF's Sonolastic NP 1



and TX-1 sealants and Chemrex CX-990 and CX-1000 wood flooring adhesives. Unlike other programs, the points that the contractor obtains from all sponsors will accumulate in a single account. The contractor can use these points to shop online for more than 51,000 personal and business rewards, which include everything from electronics to contractor-grade tools.

[www.contractorrewards.com](http://www.contractorrewards.com)  
[www.buildingsystems.basf.com](http://www.buildingsystems.basf.com)

### ACI releases updated edition of Manual of Concrete Practice

The American Concrete Institute has released the 2011 edition of one of its best-selling publications, the Manual of Concrete Practice.

Containing more than 215 documents, the MCP is the largest and most comprehensive single source of concrete practice information available in one set of books. The MCP is a must-have for concrete professionals in any facet of the industry and contains all of the ACI documents needed to answer any questions about code requirements, specifications, tolerances, concrete proportions, construction methods, evaluation of test results and many more topics. The MCP also includes the 2008 version of ACI 318-08, Building Code Requirements for Structural Concrete and Commentary.

[www.concrete.org](http://www.concrete.org)

### Bayer MaterialScience joins Alliance for Sustainable Built Environments

Reinforcing its long-standing commitment to sustainable building, Bayer MaterialScience LLC has become the newest member of the Alliance for Sustainable Built Environments (ASBE).

ASBE, comprised of a group of companies that are leaders in sustainability, aims to raise awareness of sustainable development and promote its bottom-line benefits. Bayer MaterialScience LLC, through its EcoCommercial Building (ECB) initiative, will work with ASBE to advance practical implementation of ecofriendly and economically viable commercial building design and construction solutions. ECB brings together an interdisciplinary network of organizations that provides products and services for the integrated design and

construction of ecofriendly, economically viable commercial buildings.

[www.greenerfacilities.org](http://www.greenerfacilities.org)  
[www.bayer.com](http://www.bayer.com)



### New decorative concrete showroom opens in Italy

Ideal Work has a new showroom, located approximately one hour from Venice, Italy, in Vallà di Riese, Italy.

The 3,000-square-foot facility has two main sections. One is designed for the customer rather than the contractor, so homeowners and architects can see the look of Ideal Work's products. The second area is designed for the contractor and features tools and stamps.

[www.idealwork.com](http://www.idealwork.com)

### Mi-T-M announces Northwest rep group

Mi-T-M Corp., manufacturer of hot- and cold-water pressure washers, air compressors, generators, portable heaters, wet/dry vacuums, job-site boxes and water treatment systems, has appointed Essex Silver Line Sales West as its new Rental Rep Group in the Northwest. The company will cover the states of Alaska, Idaho, Montana, Oregon and Washington.

[www.essexsilverlinewest.com](http://www.essexsilverlinewest.com)  
[www.mitm.com](http://www.mitm.com)

### NewLook hires new territory manager for northern Florida market

NewLook International Inc. has hired Kim Andres to support and manage the northern Florida market.

Andres' territory includes Tallahassee, Orlando and the Tampa Bay area. His background is primarily in the polishing and concrete staining subsegments of the decorative concrete industry.

[www.getnewlook.com](http://www.getnewlook.com)

### Aztec Products hires Southeast regional sales manager


Aztec Products Inc. has hired Glenn Krewson as Southeast regional sales manager.

Krewson has experience in growing sales regions and increasing market penetration for small companies as well as Fortune 100 companies.

[www.aztecproducts.com](http://www.aztecproducts.com)

### Stonhard redesigns website

Stonhard has launched a completely redesigned website.

The new site sports a clean, easy-to-navigate format. Product information, technical details, finished photos, case histories, company news and contact information are just a simple click away. A convenient "search" feature allows visitors to bypass navigation by entering exactly what they're looking for. Another new feature allows Stonhard to connect with customers via Twitter. 

[www.stonhard.com](http://www.stonhard.com)





Photos courtesy of Lauger Concrete & Design and Normann Photo





# Dylan Lauger

## Lauger Concrete & Design

Sturgeon Bay, Wis.

By Kelly O'Brien

**D**ylan Lauger has become a master in modern, industrial, experimental concrete furniture design and other artistic concrete skills while living on a remote peninsula in Wisconsin. Among other achievements, he once designed and cast an 8-foot-long GFRC sturgeon as a submission for a local arts competition.

Lauger has been involved in the concrete industry for most of his 35 years. Born and raised in Door County, Wis., a sparsely populated peninsula that extends into Lake Michigan, Lauger grew up around his father's concrete business.

Although going into concrete may not have been Lauger's original life plan, the death of his father when Lauger was 15 had a definite impact, he says. After he had spent a couple of years on a waiting list for a career in hotel and restaurant management, an old employee of his father's called him and said, "Hey, you want to work on concrete?" It wasn't long before Lauger was following in his father's footsteps. "I've been pretty busy ever since," Lauger says.

That phone call was in 1997, and the intervening

13 years have seen Lauger's concrete career totally transformed. He eventually started his own company, Lauger Concrete + Design, which he still runs from Sturgeon Bay working with his brothers Luke and Christian.

Initially, it was just Lauger and a rundown truck. If

he needed fancy tools or equipment, he'd find someone to borrow from. If he needed to use a technique he'd never done (or even heard of), he'd figure out how. "I like being self-taught," he says. "I experiment a lot. The instructions will say, 'You're not supposed to use this here,' but I will ... and it will work."

The two creative concrete elements he started to work with most frequently were stains and concrete countertops. (Lauger, by the way, prefers the term "creative concrete" to "decorative concrete"

— "decorative" reminds him of decorating a Christmas tree or a cake, neither of which has much in common with his design aesthetic.) At the time Lauger started experimenting with countertops, they were sufficiently rare in small-town Wisconsin that he was pretty







convinced he'd invented them. (When he found out he wasn't alone in the countertop world, he eagerly reached out to other contractors to compare notes.)

While Lauger was very enthusiastic about the more creative elements of concrete, for his first five years as a business owner, most of his projects were either flatwork or foundations. But after years of pouring footings with forms (in fact, the same brand of forms his father had used before him), he had an epiphany — this was not the kind of

concrete he wanted to be doing. "Working on foundations, you're breaking yourself to set 'em up, pour 'em, and strip 'em — just to turn around and do it again."

He sold the forms and turned his attention to more creative concrete pursuits. "I was starting to get noticed for doing alternative stuff with concrete," he says.

In fact, Lauger has made that his company's prime directive. He defines his specialty as "interior and exterior alternatives," which basically comes down

to finding creative concrete solutions for any and all of his client's needs. Concrete countertops, sinks, tubs, walls, floors — Lauger has installed most of these in his own house and is game for it all. "You want a door?" he says. "Let's make it out of concrete!"

Lauger's creativity has found an outlet not only in residential and commercial concrete applications, but also in modern, minimalist concrete furniture design and fabrication. His first furniture project was





a table lamp. It was very simple and very striking — a raw gray block of concrete with a bare light bulb wired and mounted into one end of it. This lamp design has become something of a signature for Lauger, whose furniture has a raw, industrial look.

Although he has riffed on the block lamp design several times since that first one, his second iteration is probably the most evocative. Several years ago, Lauger was doing spring cleaning and came across a bin full of nuts and washers that had belonged

to his father. Rather than trash them, Lauger mixed them into a batch of concrete and cast another block lamp. Twenty-plus coats of L.M. Scofield Lithochrome etched the surface down, and as the lamp sat in his workshop to cure, it developed a gorgeous green patina. Meanwhile, the nuts and bolts began to weep vibrant, rust-colored rivulets. The end result is incredibly striking, and a terrific example of Lauger's eye for modern design.

Unfortunately, Lauger's appreciation for the minimalist aesthetic is not shared

by many of his neighbors in Door County. Although he would really like to see his furniture become a larger part of the work he does, his local clientele aren't often interested in industrial, rebar-and-wet-cast end tables. "It's a very lidded, conservative area," Lauger says. "People get scared if they don't know what it is."

His more accessible projects — his countertops, water features, stained floors and even the 8-foot sturgeon statue — have been well-received, but they haven't really









driven up demand. Four years ago, for example, he did his first commercial job at a cafe in town. “I got like 800 compliments on that floor and only two jobs off of it,” he says. “That’s my area.”

That said, there are some advantages to the small-town setting. “People know me,” Lauger says. “When they see something cool that’s made out of concrete, they know it’s mine.” That renown, combined with the fact that his company has very successfully diversified their services, came in very

handy when the market took a dive a few years ago. While 2008 was not a particularly good time for the industry, it was one of Lauger’s best years to date. “No one in the area is doing what I do,” he says.

Of course, if Lauger has his way, he might not be in the area much longer — he’s planning a move in the near future, hopefully to a community with more of a taste for modern art.

But even if there is a change of locale, his career path is pretty well set in stone.

“I would never do another thing ever in my life — I’m kind of obsessed,” Lauger says. “I work with concrete all day. I come home thinking about it. In the morning, my girlfriend tells me I asked her for a trowel last night in my sleep. I shouldn’t be dreaming about concrete ... but I really love what I do.” 🛠️

🌐 [www.laugerconcrete.com](http://www.laugerconcrete.com)



# How Texture Affects Color



Coloring concrete isn't just a matter of choosing pigment, sand and cement.  
How your concrete is finished will alter its color too.

*by Stacey Enesey Klemenc*

Photo courtesy of Davis Colors



Many beginner s approach color from a simplistic viewpoint: They pick a color from a chart and assume the end result will look exactly like that. “They don’t understand how concrete changes as it’s manipulated,” says Jeffrey Girard, P.E., president of The Concrete Countertop Institute.

Texture — how concrete is finished — is one of many elements that affects the way we perceive color on decorative concrete surfaces.

For example, the reflectivity of a surface helps determine the final color of integrally colored concrete, says Rich Cofoid, national sales manager for Increte Systems. “For the most part, the smoother the surface, the more reflective it is, and the more reflective, the lighter a color will look.” Polished concrete produces the most reflective surface, followed by steel-troweled and float-finished. Broomed concrete is the least reflective of the bunch.

If you ask Todd Rose, owner of ToddRoseConcreteTraining.com, based in Charleston, S.C., about color and texture he’ll tell you it all starts with porosity. “The more porous the concrete, the less vibrant the color.”

Overall, the more textured the surface, the more the color will change depending on the viewing angle. You don’t see a consistent color on a rougher slab like you would on a steel-troweled and sealed floor.

“Everything we do to concrete affects how clients see color and the way it appears to the eye,” says Girard. How concrete is troweled affects how it cures, and that affects its shading. If you trowel too hard, it burns the surface and darkens. If concrete is polished, a thin layer is removed, revealing some degree of aggregate.

The color saturation level, the intensity, the shading, the sheen and the texture all contribute to the outcome, Girard notes. “Concrete’s appearance is like one rope with many strands. And the individual strands influence the final result.”

With a little imagination, you can put these factors to work.

# Get creative with broomed finishes

Photo courtesy of Ross Urshan

Photo courtesy of Architectural Concrete & Design Inc.

Brooming integrally colored concrete can add more than texture. It can create the illusion of different colors.

For instance, there’s a reddish-colored raised median dividing a major roadway in Boulder, Colo., where broomed sections lie between smooth-

troweled patches, says Chris Sullivan, vice president of sales and marketing for ChemSystems in Houston. “When you drive by, the color shifts up and down. It really denotes the median itself and brings attention to it.”

However, when brooming integrally colored concrete, applicators should have experience, says Doug Bannister, owner of The Stamp Store in Oklahoma City. “A common mistake with crews unfamiliar with colored concrete is to wet-broom in the same manner as they do with gray concrete,” he says. “But this washes out and streaks the color, causing the project owner to be disappointed and even feel cheated.”

“An excessively wet broom will change the water-to-cement ratio and give you blotchy colors,” agrees Bart Sacco, president of Concrete Texturing Tool and Supply in Throop, Pa. “Wipe off the excess water so when the tool touches down it’s not soaking wet.”

Photo courtesy of Chris Sullivan





# Stamped concrete and color

If you think stamping concrete doesn't affect color, think again. You'll get less highlighting color on lightly textured surfaces and more pronounced color with aggressive finishes.

Bart Sacco recalls a recent job where the client visited his showroom and selected a slate green with a light gray release. The combination was displayed on a very flat, smooth 2-by-2 slate pattern sample. However, the stamp she chose for the roadway and traffic circle installed on her property was a very chunky 3-inch-by-6-inch cobblestone.

When the job was completed, she initially refused to pay, claiming the crew had used the wrong colors. "The colors appear different because the light gray release took to the smaller cobblestones much differently than the smoother slate," Sacco says. "I also explained to the architect that the sun reflecting on the cobblestone slab made it look different (than the sample in the showroom)."

She accepted the third-party review and finally paid the crew. "The only thing they did wrong was they didn't make a test pour," he says. "You should always do a job site mock-up."





# Stains versus dyes

Different methods of coloring concrete are affected by finishes differently.

Acid stains generally look darker on broom finishes than on smoother, steel-troweled surfaces. That's because "a heavy texture has more surface area and less reflectivity," says Rich Cofoid.

Textured slabs won't have as much acid stain marbling as smoother surfaces, notes Chris Sullivan. "Stains will saturate rough broomed surfaces in a more even manner." Smooth concrete, however, consists of areas with varying degrees of porosity, producing the classic marbled look.

Because acid stains chemically react with the paste in the concrete, he notes, you're at the surface's mercy when it comes to color control. Applicators using acetone-based dyes and water-based stains have more control over color regardless of the texture. If you want the surface darker, put down more product. If you want it lighter, use less.



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# Art Professors Talk Color Perception and Texture

*Concrete Decor* asked a trio of art instructors from Southern Arkansas University to share their perspectives on concrete, color and texture.

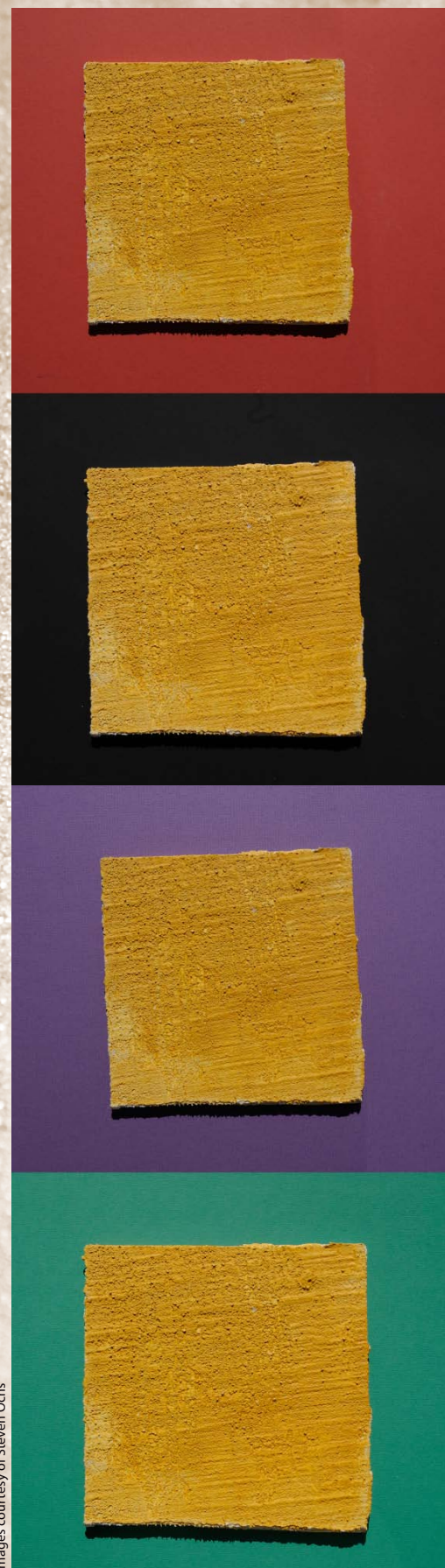
First of all, the irregular highs and lows of a texture can make it hard to determine a "true color," says Southern Arkansas University assistant professor of art Dan May. When you drive through a mountain canyon when the sun is low, he says, you may notice an overall blue tinting on the trees and rock surfaces caused by shadows, which are usually tinted blue.

"A concrete surface is like these canyons in miniature form," May says. "When comparisons were made in side-by-side studies of the same color on smooth

surfaces and rough surfaces, researchers found the colors on the rough surfaces look darker and somewhat bluer."

Steven Ochs, Southern Arkansas University professor of art and owner of Public Art Walks, likes to make the most of textured rough surfaces by applying highly transparent water-based stains. "With just one color, you can achieve an entire range of value between light and dark," he says. "When the color 'breaks' over the raised areas, it will be light, and when it puddles or 'pools' in the recessed areas, it becomes darker." This creates an illusion of depth.

With opaque colors, the more layers you apply, the flatter and more uniform the textures appear, he says.



Images courtesy of Steven Ochs

According to art experts, the same hue is perceived differently when placed next to different colors.



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If you use a nonskid safety texture such as alumina oxide or a polyresin sand to meet code for static coefficient of friction, you may see an accurate color from one angle and a sugarlike sheen from another, Ochs says. One way to soften the glare is to use varied sizes of aggregate between layers of sealer. "The more refraction you have (bending light rays), the softer the shine," he says.

Some artists juxtapose complementary colors and different light sources to bounce light from one color source to another before it travels to the eye. By using these tinting effects, you can create a "false texture," May says.

The juxtaposition of warm colors — reds, oranges and yellows — with cooler colors — blues and some purples — plays tricks on our vision. "The warmer colors appear to move toward us, and the cooler ones recede," May says. This creates the illusion of distance separating them and can also create texture of sorts.

"Complementary colors such as green/red or orange/blue appear much more intense when placed side by side," says Southern Arkansas University instructor of art Ann Bittick. If you stare at these colors too long, your eyes become fatigued, and when you look away, you'll see opposite colors.

Complicating matters, May says, the two genders see colors differently. Men have larger rods in their eyes and women have more cones, he says. Rods account for the ability to detect movement, and experts in human anatomy and anthropology have reasoned that men evolved as hunter-gatherers who had to detect movement in dark places or in low light as they hunted nocturnal prey. "Therefore," May says, "men are more aware of values of gray and contrast."

Women, on the other hand, relied on their vision to differentiate colors when searching for small edible objects, such as berries. "Their ocular faculties evolved to be more in tune to color variations," May says. "So when you need to know the color of a poisonous bug, ask a woman. If you need to know if you are in danger of being run over by a Volkswagen bug, ask a man."

# Controlling the final outcome

Admittedly, when it comes to integral color, cement variations and sand color will have more of an effect on integral color than texture does. Slag and fly ash will alter the final color, as does water. "The more water you add to the concrete, the more diluted the color becomes," Cofoid says.

Still, even with all these other factors impacting integral color, the finished texture is clearly a factor, and it is with stains and dyes too.

So how can a colorist get a handle on upping the skill level associated with pouring and finishing concrete? "I would love to say we're winning the war but the truth is people are looking for something cheaper and faster," says Rose. "That's why I often get hired to stain a slab but don't get to pour it."

Even so, he says, consumers' expectations have risen when it comes to the end result, in part because of the Internet. "The days are long gone when the stain contractor can blame the guy who placed it. Instead, you have to be versatile enough to deal with issues before they come up. In order to succeed you have to be proficient in multiple products. The days of being a one-trick pony are over." 🛠️



# The Science of Shine

## How reflected light affects the color of sealed or polished surfaces

by Jeffrey Girard

Rough surfaces look dull. Dry surfaces are pale and washed out. Sealed surfaces can be rich, and polished surfaces are deep and shiny. We all know this, but what is going on?

Light reflects off surfaces, and what an object looks like depends upon the material's surface characteristics. Some of the light is reflected, some is scattered and the rest is absorbed, so we see different things depending upon how much light is reflected from the surface and how much is scattered. The color depends upon what is absorbed.



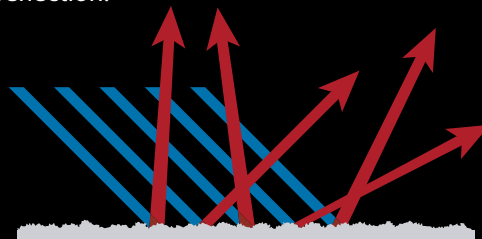
Photo courtesy of The Concrete Countertop Institute

On this curved concrete hearth, a polished horizontal surface contrasts with a vertical surface that's been cast against plywood. The wood-grained vertical surface appears duller and lighter due to greater white light scatter.

A highly polished mirror reflects most of the light in one direction. Almost all of the light rays are reflected in a parallel orientation and nearly none are scattered. Because the light is reflected without scattering, the image is clear and in focus. This is called "specular reflection," and the term often is used to describe the highlight visible on a brightly lit object and the glare seen from light shining on a very shiny surface.



Rough, translucent or transparent objects scatter most of the incoming light in a "diffuse reflection," with little or no glare from specular reflection.



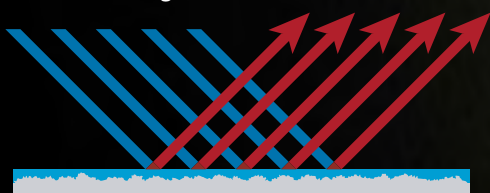
The apple is red, but because the surface is glossy, the light source is visible as a white highlight.



When concrete is wet, sealed or highly polished, there is more specular reflection than diffuse reflection. At certain viewing angles all we see is glare or the image of the light that's illuminating the surface. At other angles, not in line with the path of the reflected light rays, we don't see any glare — all that's visible is the color of the surface.

When concrete is dry or is not polished, almost all of the light is scattered in diffuse reflection and the surface seems pale, washed out or dull. That's because there's no focused reflection of the light source. The incoming light is scattered and overwhelms the reflected color. The net effect is that the surface appears light, dull and washed out no matter what angle the concrete is viewed from.

Sealers can fill in microscopic surface roughness, reducing the amount of diffuse reflection and increasing the specular reflection. This is why concrete that's sealed or is wet appears darker and richer in color. It also explains why shiny surfaces have glare.



With shiny surfaces, more of the white light from an illumination source reflects off the object. What diffuse reflection occurs shows us the color of the object. All the light is affected by the color of the object, but the intensity of the specular reflection on smooth, wet or shiny surfaces overwhelms the diffuse portion.

A surface sealed with a matte finish has some specular reflection that shows the color and some diffuse reflection.

Generally the glossier the surface, the deeper and richer the color appears. Conversely, with a flatter and less shiny surface, the color tends to look more washed out and dull. Comparing a matte and glossy surface of exactly the same color, the matte surface has enough scattered white light to dilute the reflected color, making the overall appearance more washed out and lifeless.



Photo courtesy of The Concrete Countertop Institute

This test slab demonstrates how different sealers leave different-looking finishes on the same concrete.



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## What You Need to Know about Life-Cycle Assessments

**A**cco rding to an August 30, 2009, article in the New York Times, the United States Green Building Council's own research suggests that a quarter of new buildings that have been certified in the Leadership in Energy and Environmental Design (LEED) program do not save as much energy as their designs predicted, and on top of that, most do not track ongoing energy consumption. These are disappointing findings and don't generate a lot of confidence among the public in so-called sustainable buildings.

So how would a building that is not energy-efficient become LEED-certified? Most LEED points are not based on a building's actual performance but rather on measurements such as percentage of recycled content or the distances traveled by products after manufacturing. What's needed, and LEED is moving in this direction with its Building Performance Initiative, is to incorporate into a building's rating some form of life-cycle assessment (LCA).

Life-cycle assessment is a simple concept that in practice rapidly becomes complex. Start by calculating how much energy is used or how much pollution is generated by a single product during its entire life, from raw-material extraction to manufacturing to construction to operation to final disposal or recycling. Do this with all of the products used in a building, including the energy used to operate the building, and you have the environmental life-cycle assessment of the building. Generating this information for different buildings allows us to fairly compare the environmental impact of



*by William D.  
Palmer Jr.*

different types of construction and different products.

Concrete has a long life. There is Roman concrete still performing well after 2,000 years. That fact alone gives buildings with lots of concrete a favorable life-cycle assessment, since the manufacturing impacts can be spread out over that very long life span. Remember that the most sustainable building of all is the one that is never built. So one energy-efficient concrete building that lasts for 100 years easily beats two 50-year-life wood structures. And concrete in buildings also gets to take credit for having low maintenance costs, having no toxic off-gassing, and for acting as a heat sink (thermal mass) to modulate heating and cooling requirements. We've got it made, right?

### What is life-cycle assessment?

Of course, nothing's ever quite that simple. To start with, what is it we are actually measuring? There are a variety of environmental impacts that are often included in an LCA. How much energy is used during the entire life cycle? How much carbon dioxide is released? How much water is used? How much toxic material is released? And, of course, how much will it cost? We'll get back to cost in a minute, because that's actually a different approach — a life-cycle cost analysis.

Some LCAs focus on a single impact, such as carbon dioxide equivalents. Others provide a variety of scores for each of the different impacts. An LCA tool developed by the Athena Institute for use with the Green Globes rating system allows comparison of five environmental indicators: energy used, global warming potential, toxic releases to air, toxic releases to water, and solid waste. Rather than trying to weigh each of these and combine them into a single score, calculating each separately allows more direct comparisons

of alternative products and buildings.

Critical to conducting an LCA is the data. That data comes in the form of a life-cycle inventory (LCI), which shows the environmental impacts for each individual component of the building — say one pound of cement or one gallon of sealer. Getting good LCIs is difficult and often subjective. If the data are biased, the results will be biased. To address that, the National Renewable Energy Laboratory and its partners have developed the U.S. LCI Database to provide data that it can claim is consistent, accurate and relevant.

So all of these LCIs are added up and you arrive at the life-cycle impact of the building. But, according to the U.S. Department of Energy, building operations use about 40 percent of the energy consumed in the United States. The energy used and pollution generated during construction are dwarfed by what happens over the building's lifetime, and many LCAs have not accounted for this.

The Massachusetts Institute of Technology's Concrete Sustainability Hub has set out to change that and has developed an LCA model that focuses on the use and demolition phases of the building's life. Teams of researchers at the Concrete Sustainability Hub have analyzed both residential and commercial buildings with an anticipated life of 75 years. They have also looked at regional differences by running LCAs in Chicago and Phoenix. This research has shown that more than 90 percent of a building's environmental impact is due to its operating phase and that concrete structures can reduce the release of carbon equivalents by as much as 20 percent. This work is ongoing and will be used to test the design alternatives and to show that concrete buildings reduce carbon emissions compared to alternative construction materials, too.



## Life-cycle cost analysis

A life-cycle cost analysis (LCC) is actually a little simpler, since the costs are more evident and concrete (if you'll excuse the pun) than something like how many people will get cancer from a given toxic release. An LCC is different than a traditional cost analysis in that it includes not only the initial cost and revenue generated by a building but also the cost to operate and maintain the building over its lifetime, and it considers any salvage value when the building's useful life ends.

An LCC allows a building owner to compare various surface finishes, for example. How much does it cost to operate and maintain a concrete floor instead of a carpeted floor, and what are the replacement costs? A good tool for comparing different energy-saving investments is the Cash Flow Opportunity Calculator from Energy Star. Another analysis tool is the Building Life-Cycle Cost (BLCC) software from the National Institute for Standards and Technology.

But not all economic impacts are quite as obvious on the balance sheet. "Life Cycle Cost Analysis Of Occupant Well-Being And Productivity In LEED Offices," a 2009 study conducted at Michigan State University, analyzed the indoor environmental quality of a LEED-accredited office building compared to a more traditional office building. Considering asthma and respiratory allergies, depression, stress and productivity, they documented significant improvements in LEED offices. In productivity alone, this study showed that the average building occupant was about 2 percent more productive, resulting in nearly 40 more hours of productive work per year. Happy and healthy employees may be a goal for many reasons but it can also pay off at the bottom line.

An LCA for environmental impact and an LCC for economic impact make great sense. As LCA and LCC become more standard tools in determining how sustainable a building is, concrete's many attributes will become more and more the material of choice. 📁

*William D. Palmer Jr., P.E., is editorial director for Commercial Construction Group magazines and websites at Hanley Wood. He was formerly a consultant with Complete Construction Consultants. Contact him at [wpalmer@hanleywood.com](mailto:wpalmer@hanleywood.com).*

## For more information

Athena Institute:

🌐 [www.athenasmi.org](http://www.athenasmi.org)

Cash Flow Opportunity Calculator from Energy Star:

🌐 [www.energystar.gov](http://www.energystar.gov)

Building Life-Cycle Cost (BLCC) software from the National Institute of Standards and Technology:

🌐 [www.nist.gov](http://www.nist.gov)

"Life Cycle Cost Analysis Of Occupant Well-Being And Productivity In LEED Offices":

🌐 [www.usgbc.org/ShowFile.aspx?DocumentID=6059](http://www.usgbc.org/ShowFile.aspx?DocumentID=6059)

Massachusetts Institute of Technology's Concrete Sustainability Hub:

🌐 [web.mit.edu/cshub/index.html](http://web.mit.edu/cshub/index.html)



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## CARLTON'S CORNER

### Hot New Markets in Decorative Concrete

**T**he best training and the best products mean nothing if we can't find projects to prove our talent, right? I'm not going to sugarcoat our plight — I have been peddling decorative concrete for nearly 20 years and have never seen as many challenges as the ones we face today. Having said that, my goal is to have the best year possible, and I'm going to let you in on a secret as to how this will be done.



by Doug Carlton

There are still folks out there buying our decorative services. They're still looking for quality craftsmen and still willing to pay you for this service. The question is, are you willing to do what it takes to put your company's face out in front of what we all will agree is a narrow market of decorative concrete users? It is by habit and comfort that we try repeating the same old, same old by attempting to bring in new jobs the same way we did yesterday. The old ways need some refreshing.

So let's look at two emerging markets in decorative concrete for 2011.

**Emerging market No. 1:** New construction has taken a back seat to remodel construction in nearly every city and state. The good news is that decorative concrete is held in high regard because it offers many interior applications at reasonable prices. Even while the size of the construction market has been reduced, the taste for decorative concrete has not. Customers still prefer a durable, affordable and attractive surface for both residential and commercial uses. Now I will be the first to admit I'm not a big "inside" decorative artist, with the proof being that 75 percent of my contracting is exterior projects, but we must go where the gold is.

Interior staining, overlay, counters,

polishing, etc., are all part of this emerging market, and it will only grow as owners redirect improvement dollars into existing structures rather than building something new. Interior uses for decorative concrete are limitless, so let the creative juices flow straight into your business's bottom line. If you are not tapping into these markets, let me ask what the heck you are waiting for. The steps to break into interior work are: First, research, second, get educated and train, and third, implement by applying skills to a project.

**Emerging market No. 2:** The second emerging market is relatively new to most decorative concrete companies but has the potential of creating a lot of new work. Nearly every city, state and federal agency has cut back on repairing or maintaining parks, buildings and anything else internally. These parks and buildings must still be repaired and maintained, so government agencies are outsourcing the work to independent

contractors like you. Some repairs or redos are being kicked down the road, but some improvements and maintenance must be done regardless of budget restraints.

I believe many schools, private businesses and large corporations will follow suit, figuring the cost to hire your company will be far less than retaining full-time in-house repair/replace personnel. It seems 2011 is turning into the year of keeping the costs of business as slim as possible and this will only broaden markets for independent contractors like yourself. I will be the first to admit that this is a little off the beaten path for a typical business plan, but remember, the goal is to keep fresh money flowing and live to fight another day.

**One more idea:** It is easy to forget about existing customers as a source of new work, but the facts show that they are your best source for new work. The reason is that you have proved yourself trustworthy and quality-oriented. If you decide to add a new

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# construction SERVICES :

technique or aspect of decorative concrete to your business, be sure to let existing customers know all about it. In these days of social networking, keeping in contact with existing customers has never been so easy. I have found newsletters — online or paper — and reminder postcards always generate new work, sometimes months after they've been sent. It never hurts to have your company's name in front of past customers to cultivate new work, prospects and referrals. 📧

Doug Carlton operates Carlton Concrete Inc. in Visalia, Calif. He can be reached at [carltondoug@comcast.net](mailto:carltondoug@comcast.net).



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## PRODUCT NEWS

### Construction management software improved, iPad application available

Maxwell Systems Inc. has released Maxwell Systems ProContractorMX version 2.6, which offers new capabilities to help earthwork, site-work and excavation contractors more quickly and accurately manage takeoff and delivers a new module to help construction and service contractors manage inventory.

The company has also released Maxwell Systems ProContractorMX Mobile Connect, which is a comprehensive iPad application providing project managers with real-time access to critical project information. Available at the Apple App Store, ProContractorMX Mobile Connect gives project managers the ability to streamline business processes in the office and in the field.

[www.maxwellsystems.com](http://www.maxwellsystems.com)

### A pH control system for wastewater

Fortrans Inc. has announced a portable pH control system for the concrete polishing, grinding and cutting industry and other generators of high-pH wastewater.

With its small footprint and portability, the Poli-Cut system is ideal for treating the high pH wastewater produced in concrete polishing, cutting and grinding operations.

The system uses carbon dioxide gas to automatically adjust the pH of process water to pH 7.0 (neutral). The system comes with an integral tank, pump, controls, and Fortrans' proprietary carbon dioxide diffusion-injection unit. The two-speed pump system will treat from 1,500 gallons per hour to 3,000 gallons per hour automatically.

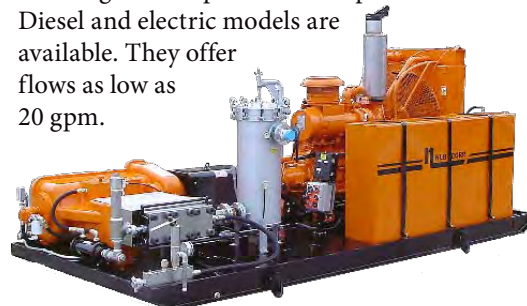
[www.fortransinc.com](http://www.fortransinc.com)

### Water-jet units from NLB

The NLB 605 series of water-jet pump units from NLB Corp. gives users a powerful combination of ultrahigh pressure and high horsepower in rugged units they can convert to a variety of operating pressures.

The range of the NLB 605 Series has been expanded to include eight operating

pressures from 4,000 psi to 40,000 psi, with engines of up to 600 horsepower. Diesel and electric models are available. They offer flows as low as 20 gpm.



These units can be converted from one pressure to another in about 20 minutes and are easy to maintain.

[www.nlbcorp.com](http://www.nlbcorp.com)

### DeWalt offers hand tools

DeWalt has announced its new line of hand tools, which includes more than 100 professional-grade products such as utility knives, pliers, wrenches, tape measures, hammers, saws and more.

Among the more innovative tools in the line are a 15 Ounce Framing Hammer (DWHT51138), a 1.25-inch 25 Foot Short Tape (DWHT33385), a Power Tool Case with Tote (DWST24070), a Folding Retractable Utility Knife (DWHT10035) and multiple Heavy-Duty Adjustable Wrenches.

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### Hilti offers cordless rotary hammer drill

Professionals can experience battery power at its best with the comfort and convenience of Hilti's new TE 6-A36-AVR cordless rotary hammer drill.

Thanks to a redesigned hammering mechanism, the TE 6-A36 provides superior drilling performance at up to 5/8 inch in diameter. It features an ergonomic grip design and best-in-class performance-to-weight ratio. Active Vibration Reduction keeps vibration to a minimum. The TE 6-A36-AVR can also be fitted with the TE DRS-6-A Dust Removal System. 📧

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## BoHouse Café Floors Dubai, United Arab Emirates

by Natasha Chilingirian

The work of Preferred Specialist Services LLC, a Dubai-based floor installation company and Elite Crete products distributor, is nothing short of whimsical. Take this example: At the Dubai offices of candy manufacturer Mars Inc., the company embedded Snickers bar wrappers into a conference room's epoxy floor coating for a truly tasty look.

The floors at BoHouse Café, which Preferred Specialist Services installed in spring 2010, are just as mouth-watering. Located along "The Walk" of Dubai's Jumeirah Beach Residence, the BoHouse Café gives off an artsy vibe with its eclectic crowd and creative dishes, and the restaurant's decor is right in line. On the café's ground floor, swirling rainbow stripes, sparkling clouds and colorful disks and hearts pop against a radiant white background. The mezzanine level floor shows off a fiery pattern of ripples and swirls in blue, red, green, yellow, pink and brown. Furniture in colorful patterns and modern shapes pulls the entire look together on both floors.

The Preferred Specialist Services team, along with BoHouse Café owners and interior designers from Dubai-based interior design firm Osama Shaar Décor, developed the eye-catching floor surfaces to match the restaurant's playful feel.

"The café is based on a young, funky and hip culture, and the colors are supposed to reflect this image," says Preferred Specialist Services general manager Karl Vaughan.

Beirut, Lebanon-based holding company Pragma Group, which owns the BoHouse Café, had been struggling to locate a specialist that could act as both installer and material supplier for the café flooring project, Vaughan says. After receiving a positive reference, Pragma Group contacted Preferred Specialist Services.

The installers faced specific requirements and a few challenges at the café. First, Pragma Group required concrete substrate surface coatings 120 millimeters (about 4 3/4 inches)

### Project at a Glance

**Client:** Pragma Group, Beirut, Lebanon

**Decorative Concrete Installer/Designer:** Karl Vaughan, Preferred Specialist Services LLC, Dubai, United Arab Emirates

**Designer:** Osama Shaar Décor, Dubai, United Arab Emirates

**Timeline:** Eight weeks

**Project Specs:** Two epoxy-coated floors with embedded vinyl "intrinsic decals" (6,400 square feet total)

**Material suppliers:** Elite Crete Systems, Corrotech Construction Chemicals, Champion Neon LLC, National Chemical Laboratories Inc.

**Materials used:** Elite Crete Thin Finish, Elite Crete E100-PT4 Pigmented Epoxy: Beige, Corrotech Construction Chemicals white polyurethane, Champion Neon custom-made vinyl decals, Elite Crete Reflector Enhancer, Elite Crete E100-UV1 Clear Epoxy, National Chemical Laboratories ONE Labor Saving Sealer/Finish



Photos courtesy of Preferred Specialist Services LLC

The BoHouse Café's floor decals echo the restaurant's playful, artistic vibe.

thick, a luminous white base, application of intricate designs and a finish that would produce a three-dimensional look. Second, the finished surfaces had to be completely smooth and seamless, with no joints whatsoever. And third, due to the excessive sunlight that pours

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# coating & topping CONCRETE :



into the café through its ample window space, products that would reduce surface yellowing were essential.

To meet these key requirements, Preferred Specialist Services first chose a beige Elite Crete epoxy and a white polyurethane from Dubai manufacturer Corrotech Construction Chemicals to create the white background. Then, they chose to print colorful designs on vinyl material, apply them to the floors and emphasize several of the shades with Elite Crete's

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## concrete DECOR® product focus

### Concretetivity from Couture Concrete Systems

**T**ired of poor overlays for the polishing industry, George Lacker of GLC3 Inc. developed Concretetivity nearly 12 years ago as a thin alternative to tile and carpet in entryways. After years of success and popularity as a Lacker specialty, it's for sale to the general public.

Concretetivity, sold by Lacker's manufacturing company Couture Concrete Systems, is a topping that can be applied at 3/8-inch to 2-inch thicknesses. It can be troweled, burnished and polished. Over nearly one decade of use, the product has been applied in restaurants, retail stores, airports, offices and residential spaces.

"So many people were calling us up (to do installations)," says Cathye Rankin, who handles the marketing for Couture. "Local contractors were selling jobs, and we would come pour and polish it, and they would finish it."

It was a natural progression to start selling the overlay to other contractors. However, the material will be only made available to those who become licensed. "We want to stand behind our product. We want to make sure the people who are installing it are doing it correctly and are properly trained," Rankin says.

Concretetivity provides wonderful mottled looks, she says, and has compressive strength measured at 5,700 psi. It can be walked on within 24 hours and polished in 48 hours. Additionally, Rankin notes that during the last 12 years of use, there haven't been any reported issues of poor bonding.



Photo courtesy of Couture Concrete Systems

"We're bringing back craftsmanship to these finishes," Lacker says.

To keep costs low, the company has set up seven distribution locations across the United States, making it available to most major markets. It can be mixed in a batch small enough to cover just 12 square feet, so there isn't a concern about wasted, unused material.

While its primary application is for floors, it can also be used on countertops and furniture. It is available in gray or white, works indoors or out, and can be colored for additional decorative effects.

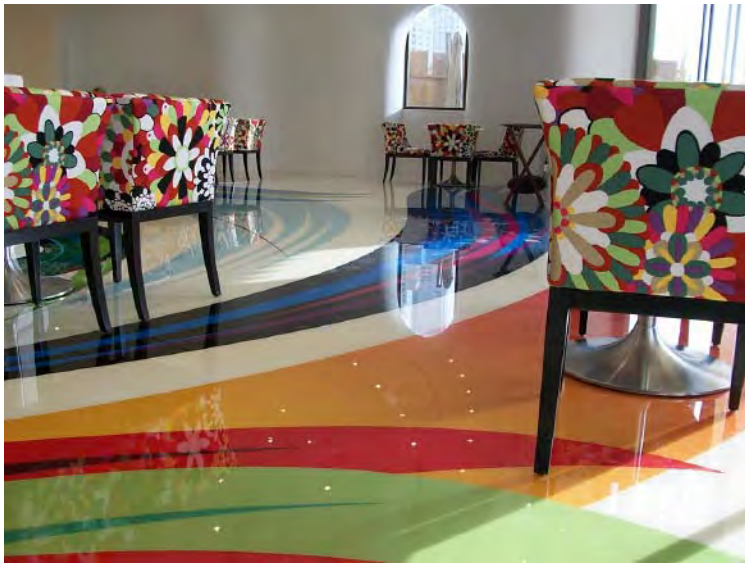
"This particular mixture is almost like a one-stop shop," says Rankin.

For Lacker, Concretetivity is about more than concrete. It's about the feeling.

"People get tired of pouring plain, gray concrete," he says. "Once they work with us and see the finished product it kind of revives them. When you see a polished floor, you have a good feeling coming home."

[www.coutureconcretesystems.com](http://www.coutureconcretesystems.com)





Two coats of Elite Crete's nonyellowing E100-UV1 Clear Epoxy topped off the job. They give the finish depth and seamlessness while resisting the sun's UV rays.



The colorful patterns on the floors of the BoHouse Café are vinyl decals augmented in some areas with Elite Crete's Reflector Enhancer.

Reflector Enhancer. Finally, they chose Elite Crete's E100-UV1 Clear Epoxy to finish the floors, achieving the depth, seamlessness and antiyellowing effect the client needed.

The floors' colorful, fantasy-like graphics were created collaboratively by the installers, the client and Osama Shaar Décor designers, who were also responsible for the café's other interior design elements, Vaughan says. For a gender-appropriate touch,

Vaughan says his team suggested the inclusion of a pink band of color that leads to the women's restroom and a blue band of color that trails into the men's restroom.

Vaughan and his crew kicked off the eight-week project by installing a fiber-reinforced concrete base 120 millimeters thick, allowing it to cure for 28 days, and prepping the surfaces with planetary polishers. Then, they applied two coats of Elite Crete Thin

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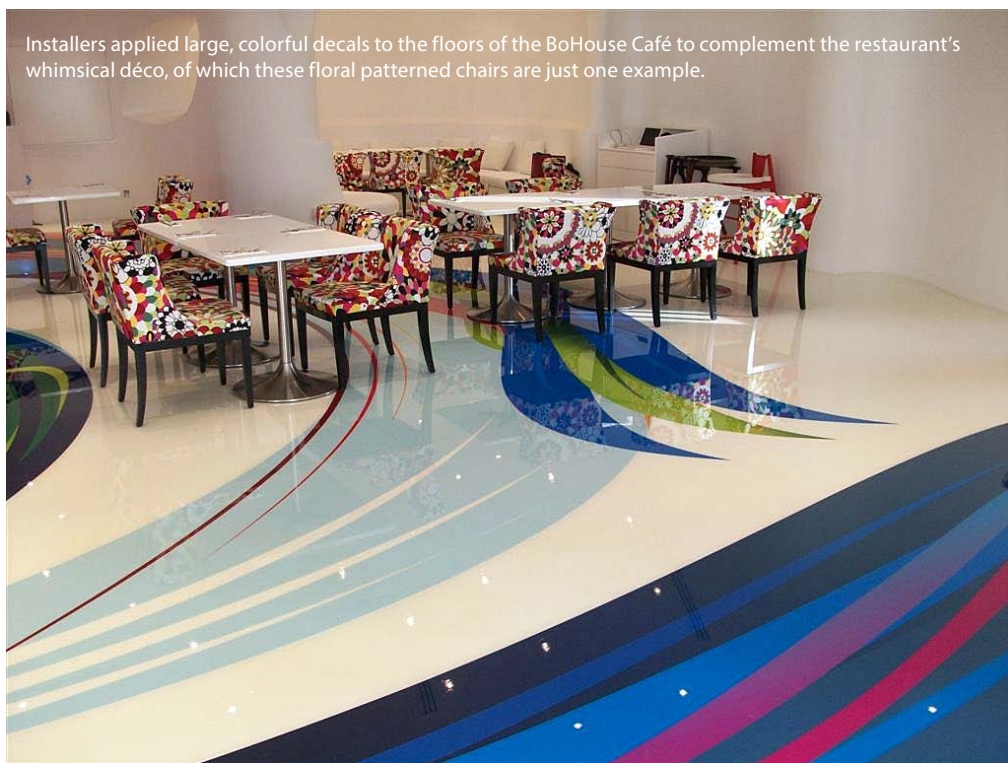
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# coating & topping CONCRETE :

Installers applied large, colorful decals to the floors of the BoHouse Café to complement the restaurant's whimsical décor, of which these floral patterned chairs are just one example.



Finish, a premixed overlay that helped smooth the surfaces' irregularities, Vaughan says. They followed with one coat of Elite Crete's E100-PT4 Pigmented Epoxy in Beige and two coats of the white polyurethane, which Vaughan says was chosen for its quick drying time (40 minutes) and defense against the sun's rays.

"A (white) epoxy would have taken six to eight hours to dry, increasing the risk of contamination," he says. "And the UV stability of polyurethane is far greater, reducing the risk of yellowing."

Next, workers spent 12 days applying the vibrantly colored vinyl "intrinsic decals," which were manufactured in pieces 4 meters (about 13 feet) long by Dubai sign manufacturer Champion Neon LLC, to the floors. Vaughan says two copies of each decal were ordered, just in case of application errors.

"This is where we experienced major challenges," he says. "Due to the size of the decals, maintaining a consistent, bubble-free finish was very, very difficult. (Ordering duplicate decals) turned out to be a good move as several sections were pulled up and reapplied due to bubbling and general distortion."

To add depth to the graphics that were printed on the vinyl decals, workers lightly coated the red, blue and green sections using Elite Crete's Reflector Enhancer in custom-blended red, blue and green shades, which emphasized and added a shimmering effect to those hues, Vaughan says.

The Reflector Enhancer, a nonmetallic admixture containing reflective nanoparticles that produce a three-dimensional look on epoxy floors, was developed "by accident" in Elite Crete's laboratories, says Ken Freestone, Elite Crete's director of technical engineering and market development.

"We were shipped pigments from some chemical companies and blended them together, and the result was a look you can't normally achieve with a mica-based metallic epoxy," Freestone says. "With Reflector, people think the floor is 6 inches deeper than it really is because of the effect."

With all the colors in place, workers then buffed the white portions of the floors, where vinyl decals had not been applied,

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using 80-grit sanding screens. Finally, they tackled the challenging step of covering every inch of the floors with Elite Crete's E100-UV1 Clear Epoxy. Workers poured the material in two 5-millimeter layers, waiting 12 hours in between.

"This was possibly the most nerve-racking stage of the floor as contamination from dust or insects can ruin the entire finish," Vaughan says. "The UV1 itself performs amazingly well and there was never any doubt about its self-leveling abilities. Once it cured, we were delighted to see that we experienced absolutely no contamination or foreign bodies."

After 12 hours of curing, workers completed the job with four coats of National Chemical Laboratories' ONE Labor Saving Sealer/Finish.

In the year since it was completed, the vivid BoHouse Café floors have held up well in heavy foot traffic and attracted plenty of attention, Vaughan says.

"Aside from the usual scuffs associated with resin floors, it appears to be as good as the day it was handed over," he says. "It's been a point of reference for us throughout the region and has initiated so many inquiries. It's certainly a floor we are proud of."

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# coating & topping CONCRETE :

## PRODUCT NEWS

### Sto Corp. launches new metallic coating

Sto Corp. has introduced StoCoat Metallic, which incorporates mica, metallic particles and pigments into a superior coating that creates the look of a substantive metal surface.

StoCoat Metallic is available in 10 colors, with custom colors available to ensure an aesthetic fit for any project. The coating is water-based and nontoxic, making it safe to

use and easy to clean up with water. StoCoat Metallic can be used on most paintable, properly primed interior or exterior surfaces.

Used with a StoTherm NEXt EIFS, StoCoat Metallic offers the aesthetics of metal in a design solution for continuous insulation. It is specifically formulated for application on StoTherm NEXt and other properly prepared surfaces, such as concrete, masonry and gypsum wallboard. StoCoat Metallic and StoTherm NEXt serve as an integrated, single-source system with a myriad of design options.

[www.stocorp.com](http://www.stocorp.com)

### New polyurea system from Citadel

Citadel Polyurea Coatings has launched the Medici Polyurea Colour Coating System. This new system is capable of utilizing two colors in a unique pattern to

produce a natural appearance with minimal effort, providing an elegant look simulating marble, slate or any stone.

At the core of the system is Citadel's Polyurea-1 HD, the workhorse of Citadel's series of Single Component Polyurea (SCP) floor coatings, which ensures that it will outlast any other acrylic or acid stain system currently on the market. Like all SCP solutions, it has a virtually unlimited pot life. It is optically clear and very high-gloss, giving it a better sheen and making Medici's colors more vibrant than traditional floor coatings. Its self-leveling properties prevent it from forming roller lines, reducing labor costs. With 100 percent UV stability and extremely low VOCs, Polyurea-1 HD is ideal for making the Medici system usable both indoors and out.

Medici's unique composition allows it to offer polyurea's usual four- to eight-hour cure rate and 24-hour return to service despite its unlimited pot life. It also retains polyurea's elongation and flexibility and is a green product.

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## LED Lights and Fiber Optics Offer New Possibilities for Lighting Effects

by Jeff Kudrick, with Amy Johnson

**T**here are few things you can add to decorative concrete that are as impactful — or as unpredictable — as light.

Just like water, light is a natural entity with subtleties and effects that unfold in unexpected ways. Light can create an environment without help from structure, shape or texture.

However, because there are so many variables with light, a concrete artisan needs to experiment and practice with lighting effects beyond just taking a class or watching a demonstration. Embedded lighting in countertops looks different depending on the time of day, other light (natural or man-made) in the room, even the vantage point of people walking by. So when you're working with light, it helps to have experience in different settings. It also helps to take a project in small steps, adding or changing some light effects as the design progresses.

Since we are all cave dwellers attracted to



Washes of light from LEDs (light-emitting diodes) accent textures and curves cast in concrete.



Photos courtesy of J&M Lifestyles LLC

flickering flame and dancing shadows on cave walls, lighting will always offer a great deal of substance in the design of any space.

Maybe for example, you can use an inexpensive motion sensor to turn on an illuminator below a cabinet, so fiber optics in a bathroom vanity become a child's night light. Light makes many products more appealing, prominent or functional — think of signage, the front of a home, or any space void of structure.

So, how can you use light to create the environment your client wants in a concrete countertop, bar or wall? Let's look at the basics of the technology and new developments in light sources.

### Fiber optics

Optical fibers are not actually a light source — you can't just plug them in and turn





Installed in a residence, this bar includes personalized embeds and fiber optics in the top. It also features a curved concrete wall and concrete soffit to house the lighting. Also unique are the concrete panels with integrated squares and circles. Some of the circles are translucent embeds.

## Getting LED-Crazy on One Project

An imaginary project illustrates all the effects you could create using the fiber optic and LED capabilities described in this article.

Say your customer wants a bar that will really make a splash. What could you do with a bar — 30 feet long, square return, 42 inches high — in a large open room with a great view of the front face?

You can tell the owner: "I see making panels in front of this bar in an architectural finish that will wear well. It will create a great visual for people when you do your catering in this open space, and it will provide ambience lighting when people are at the bar. How about we make square panels 3/4 inch thick and cast in a design of hop branches in a sandy, golden color? If we set round glass beads in the panel to let light through the back to the front, they will look like bubbles in the beer when they are illuminated. We will put an LED rope coil behind the panel which will put a halo of light around it, and the

glass will allow the light to transmit through."

The owner might question whether all that backlighting will prevent guests from seeing the concrete detail from the front. Your answer? "We can use this low-profile cove light LED that, unlike rope light, will directionally cast a beam of light across the face without taking away from the halo or the beads."

Even fiber optics have a place in this fantasy design. "Let's cut beer steins in slices and use fiber optic pinpoints to make it look like there are foaming heads of lights in the embedded steins. To make sure the light is strong enough through this dark glass we might have to create some mock-ups."

This bar may exist only on paper for now, but my experience is that creating a spectacle like this draws so much attention that it pays for itself in increased business. If you are excited and confident, the owner will get excited too by all the possibilities of concrete and light.



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them on. What they really are is a conduit that carries light from a remote source, an illuminator, at one end to a predetermined exit point in a counter or panel at the other end. Traditional illuminators are metal halide or halogen bulbs, but optical fibers will carry light from any source.

For example, one prominent architect created a dynamic environment by directing bright light at the floor. The light is carried along embedded optical fibers in the floor tiles to a wall. When someone walks over the tiles, the light is interrupted, so

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An inexpensive motion sensor can turn on an LED strip light under a sink to create night lighting in a bathroom.

the person's movement is tracked along the wall.

In a more traditional installation, light from the illuminator can be interrupted to create a dynamic pattern such as a fire-burst. An opaque wheel with openings or holes turns in front of the light. The hole pattern is cut according to calculations of which fibers need to be lit and for how long in order to create a desired effect. Calculating the pattern and cutting the holes is quite tedious and costly.

Advances in light-emitting diode (LED) light sources that can be programmed by computer have made creating moving light shows much simpler and less costly.

Optical fibers are colorless, so color can only be added by changing the color of

the light source or at the end. Embedding colored glass or acrylic at the fibers' terminus will result in points of colored light. You can create patterns with colored light in countertops by using different colors of glass or acrylic.

Another way to create color is to insert a color film between the light source and the fiber. A color wheel changes the colors in a set pattern. Again, programmable LED light sources give concrete artisans and their customers much more flexibility and control than traditional bulbs and color wheels.

## LEDing the way

Besides improving old effects, LED illuminators for fiber-optic projects give



designers many options not available with standard light sources.

LED light sources for fiber optics are available in white or in standard RGB (red-green-blue) that can be programmed to create whatever color or colors the customer wants. You can even program how long a color or light will display, or the lights can strobe or dim.

LED lights are very versatile. They require little energy and produce little heat, so it is easier to place them as a source for fiber-optic systems. LED illuminators are getting brighter, so they are capable of lighting side-emitting optical fibers that emit light evenly along the whole length of the fiber, not just at the end. Even these brighter LED illuminators still use less energy and produce less heat than metal halide or halogen, and they last longer.

LEDs increase the possibilities for fiber optics, but the results are still limited by the fibers themselves. Optical fibers are great for focusing pinpoints of light, but that pixilated look is not always the effect you want. Happily, a number of products based on LED technology have vastly expanded the options available to concrete artisans.

For example, a rope of LED bulbs behind a panel of acrylic, frosted glass or concrete with pieces of colored glass set into it creates even backlighting without hot spots. A

rope like this can't change color, so choose the color you want or use different colors of glass for white light to shine through. A rope light will last only a couple of years, so plan access accordingly.

Another type of LED is a cove light — a square “rope” of large-aperture LEDs that shine light in a wide angle instead of at one hot point.

Now LED technology is getting even

smaller and more versatile. There are LED films and tapes with tiny LED lights on them that can go almost anywhere. Washes of light from LEDs accent textures and curves cast into your medium. Use them to light panels on the front of a bar or architectural reveals at the floor transition or to halo the perimeter of tables or other furniture. Low-profile tapes, strips and ropes completely change how your concrete product is viewed.

It is possible to get corny or over-the-top with these effects — testing, using, playing with these components is a learning process. Working with light is trial-and-error and sometimes the outcome is a guess. Only through experience will you learn to outline the expectations of how the finished product will look. Experimenting with and understanding the possibilities of lighting puts you a step above a simple fabricator who is assembling a bare countertop. 📱

*Jeff Kudrick, product manager for J&M Lifestyles LLC, is well-known for his award-winning work fabricating kitchen and bath fixtures, fireplace surrounds, furniture, architectural details and water features. He presents AIA-approved courses and is a member of the U.S. Green Building Council and the National Precast Concrete Association. He can be reached at [jeff@jmlifestyles.com](mailto:jeff@jmlifestyles.com).*





# countertops & precast CONCRETE

## SUCCESS WITH CONCRETE COUNTERTOPS

### Special Considerations for Outdoor Cast Concrete

Outdoor kitchens are becoming more and more popular, and special considerations must be made in order to ensure concrete's durability, longevity and aesthetics in these applications.



by Jeffrey Girard

Let's face it, it's brutal out there. The sun bakes and fades, water freezes and thaws, and rain soaks and saturates. Concrete exposed to the elements can start deteriorating quickly if it's not made correctly. Colors can fade, sealers can peel, polished surfaces can dull or etch, and the

basic structure can degrade and literally fall apart if things aren't done right. So let's talk about what it takes to make good-looking outdoor kitchen concrete that can stand up to what Mother Nature throws at it.

#### Concrete countertop mix design

Good concreting practices are essential to being successful. If the concrete's poorly made or insufficiently cured, or if the wrong mix is used, there's a good chance costly problems will crop up.

From the start, the concrete countertop mix design must be tailored to meet the challenges of its environment. Fortunately, most concrete is meant to be used outside, so this shouldn't be a big challenge. We're looking for strong concrete, but we also want durable concrete that is dense and has

little porosity.

Conventional concrete that has at least six to seven sacks of cement per cubic yard and has good aggregate gradation is a good start. Fortunately, most concrete used for concrete countertops is much richer than this. These characteristics help reduce shrinkage cracks, curling and freeze-thaw degradation.

Low water-to-cement (w/c) ratios help reduce porosity, reduce shrinkage, improve freeze-thaw resistance and, of course, yield stronger concrete. Water-to-cement ratios should be kept at or below 0.40. Lower is always better, but strike a balance between workability, cost and the benefits of a low w/c. Very low w/c (less than 0.30) will make very strong concrete, but only certain mix designs yield easy-to-work-with concrete.

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For precast work I favor a w/c of about 0.32. For cast-in-place I recommend a slightly higher ratio of about 0.37, since more water is necessary in these mixes because the superplasticizers make finishing more difficult. Generally, mid-range water reducers are used for troweled cast-in-place finishes where the stickiness and persistence of superplasticizers isn't wanted.

Besides the basics of aggregates, cement and water, pozzolans and admixtures play an important role, especially when that concrete is exposed to the elements. Pozzolans consume calcium hydroxide, a prime efflorescence-generating compound that's produced when cement hydrates. Besides reducing efflorescence, some pozzolans can enhance the concrete's workability and increase the strength of the concrete. In the long term, pozzolans help create a strong, dense cement matrix, yielding low-porosity concrete that is more resistant to shrinkage and freeze-thaw. Consider using a high-reactivity pozzolan such as powdered glass (Bottle Pozz and Vitro Minerals' VCAS are two brands) or metakaolin. These manufactured pozzolans will give higher early strengths and can significantly reduce or eliminate efflorescence. Powdered-glass pozzolans enhance workability and fluidity, while metakaolin makes concrete creamy and sticky, good for applications requiring stiffer concrete.

### Freeze-thaw resistance

For climates where winter involves freezing temperatures, air-entraining agents are a must. These admixtures generate microscopic air bubbles that are evenly distributed throughout the cement paste. If the concrete is saturated with water when it freezes, the ice crystals that form expand inside the concrete. Repeated freezing and thawing can take their toll on concrete that is not air-entrained.

The closely spaced, microscopic bubbles entrained in the cement paste give the ice someplace to expand into, saving the concrete from gradual disintegration.

Generally, entrained-air content of 4 to 7 percent is sufficient for protection

from mild (4 percent) to severe (7 percent) conditions.

### What to color with

Concrete that's colored shouldn't fade or change color over time. The common ways to color concrete each have different considerations regarding outdoor use.

Always use integral pigments designed for concrete or masonry mortar, and select pigments that are UV stable. Iron oxides and carbon black are stable in UV environments, but not all synthetic pigments are. Consult with your pigment supplier.

Most broadcast color hardeners contain integral pigments, and they are also used in overlays and skimcoats.

Acid stains are another way of coloring concrete. Acid stains aren't affected by the sun, but some colors (blues and greens) can turn black and blotchy from moisture and oxidation. Remember to neutralize with ammonia after use, and then scrub and rinse well to remove the residue. Sealer failures are commonly linked to poor surface cleaning, and this issue can be magnified in outdoor settings.

Acrylic stains are inert pigments in an acrylic carrier. These don't react like acid stains — there's no acid in them. They are simply applied to the concrete before it's sealed. Make sure the concrete is clean and dry before use, and let the pigmented stains dry thoroughly before sealing.

Finally, dyes can be used too, but most dyes are not suitable for use outside. Some companies have developed dyes that remain vibrant outside, so make sure that if you dye, you use one of those.

### Handling heat

Color also impacts your client when it comes to managing heat. Concrete warms up in the sun. If the concrete is dark-colored, the concrete will get hot. Lighter colors reflect heat and light, while darker colors absorb the heat from the sun. I once took the temperatures of two pieces of concrete left out in the hot North Carolina summer sun. The dark brown acid-stained concrete was hotter than 120 F, too hot to

touch even for a few seconds. The same concrete with a much lighter color was a relatively cool 85 F. While not cold, it was quite comfortable to touch. A rich dark brown or black bar top may look great but won't get much use outside if it's too hot to sit at.

Daily heating and cooling from the sun affects your concrete too. Concrete expands when it heats up and contracts when it cools off. As with all other forms of outdoor concrete, joints and seams in tops play an

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important role in controlling cracks and managing slab movement.

Outdoor temperature variations are much greater than indoor variations, so accounting for thermal issues becomes very important. Interior home temperatures generally only vary by 5 to 10 degrees, since most homes are air-conditioned in the summer and heated in the winter. Outdoor temperatures can vary by more than 10 times that range. In some areas in the summer, daytime surface temperatures can reach 120 F in direct sunlight while nighttime temperatures can drop to 50 F.

Heat causes concrete to expand, and cooling the concrete down contracts it, making it shorter. Just like with slabs-on-grade, joints allow for movement and help control (and even prevent) cracks.

Slabs allowed to move freely are less likely to crack. This is the approach used for commercial GFRC building panels. GFRC (glass-fiber reinforced concrete) actually expands and contracts at twice the rate that conventional concrete does. Large panels up to 30 feet long are mounted so that thermal and moisture movement can happen without stressing the concrete.

## The best type of sealer

Finally, choosing the right sealer is paramount to providing your client with outdoor concrete countertops that perform well and look great year after year. Many decorative concrete sealers are designed for outdoor use, but beware of finishes that either don't stand up to UV exposure or must be reapplied (unless that's part of a service package you provide).

Most epoxy finishes will yellow and fail from exterior use. Many acrylic finishes look great, but some wear off or actually break down from the rigors of the outdoors.

Unlike interior concrete countertops, those used outside get rained on and are generally wetter for longer periods of time. Issues with vapor pressure start to come into play, especially with sealed concrete that's submerged or very frequently wet.

If you're looking to get excellent stain and acid protection, consider an exterior-grade urethane coating designed for concrete. There are a few on the market that will stand up well year after year in outdoor settings.

If you prefer a more natural bare-concrete feel, use a good densifier followed by a repellent. This combination treats the concrete rather than coating it. The advantage is that there is nothing on the surface to peel or discolor. Maintenance is very simple, with reapplication of the repellent required on approximately an annual basis. The only downside to this type of finish is that the concrete has no acid protection. Keep in mind that acid rain occurs in many areas. Oil may stain the concrete as well, which may be a consideration with outdoor bar tops. 🍷

*Jeffrey Girard is founder and president of The Concrete Countertop Institute and a pioneer of engineered concrete countertops. He can be reached at [jeffg@concretecountertopinstitute.com](mailto:jeffg@concretecountertopinstitute.com).*



## PRODUCT NEWS

### Resurfacing kit from The Stamp Store

The Stamp Store has released a new countertop product, the SS Specialties EZ Top resurfacing kit.

EZ Top is a blend of portland cement, aggregate and liquid SS Concentrated Polymer that is used to produce a concrete top on existing countertop surfaces, including laminate, solid surface and tile. Designed to cover approximately 60 square feet, the EZ Top system is available in both gray and white and can be colored to meet the preferences of the customer. EZ Top Color (not included with the kit) is the easiest way to integrally color the material, but topical colors can be used as well.

The kit comes with the liquid polymer, a bond-coat powder and topcoat powder.

[www.thestampstore.com](http://www.thestampstore.com)

### New adhesive system for precasting

A hot-melt adhesive system that's ideal for bonding reveals, chamfers, form liners, weld plates and other structural and architectural elements into all types of precast concrete forms is now available from Power Adhesives.

The new Power Adhesive hot-melt system consists of a line of Casttec precast adhesives and one of three TEC heavy-duty hot-melt glue guns.

Power Adhesives' Casttec Precast Hot Melt Adhesive formulations provides superior strength against shear, which prevents elements from moving on the form as the concrete is flowing and keeps critical form inserts from shifting. It remains tacky for up to three minutes in the event more precise positioning is required. Recrystallization of the Casttec Hot Melt occurs over an eight-to-10-hour period. This delayed recrystallization provides maximum bond strength during the setup and pour stage and makes the adhesive easier to clean off the form when precast parts are removed.

The hot-melt adhesive bonds to all common material types, including wood, foam, most plastics and some metals. A fast one-step process, the system does not requiring priming, secures a strong

bond that sets almost instantly and has an excellent release from form for fast cleanup.

[www.poweradhesives.com](http://www.poweradhesives.com)

### Angle grinder news from Metabo

Among new angle grinders from Metabo Corp. is the 4 1/2-inch/5-inch WA11-125 Quick small angle grinder.

The WA11-125 Quick small angle grinder features a unique autobalance system that extends both tool and wheel life while making the grinder safer and more comfortable to use. Metabo's new technology replaces the traditional backing flange with an autobalancing flange pressed onto the spindle.

Ideal for cutting and grinding applications, the WA11-125 Quick features a long-lasting 9.6-amp motor and a no-load speed of 10,000 rpm. It delivers 1,100 watts of power and 26.9 inch-pounds of torque. The grinder weighs just 5.9 pounds. Metabo's Quick toolless wheel-change system saves time and energy when replacing wheels.



Also, Metabo Corp. has upgraded its 7-inch Angle Grinder Surface Prep Kit to include the new W24-230 large angle grinder as well as the standard 7-inch dust control shroud and optional vacuum. In addition to 17 percent more torque than the previous kit's grinder, the tool offers improved ergonomics and better airflow, making it ideal for large-area concrete surface grinding applications.

The W24-230 has a rated speed of 6,600 rpm and a loaded speed of 4,600 rpm and delivers a total of 150 inch-pounds of torque and 2,400 watts of power. The 7-inch dust control shroud opens easily to allow operators to work flush against a wall.

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### Buddy improves color paste system

Buddy Rhodes Concrete Products has revamped its color paste offerings, making them easier to use.

Now, a concrete artisan can create any shade of color paste desired with Buddy Rhodes Bone White Color Paste and Buddy's Ultra Fine Dry Pigments. Instead of having a different shade of color paste in stock for every job, Buddy Rhodes provides one bone-white paste and a nice variety of versatile dry pigments, streamlining the countertop shop.

Color paste can be used to create a slurry, which is used to fill in areas or voids around hand-packed concrete. This technique, created by Buddy Rhodes, produces a mottled or marbled effect. Using a contrasting color in the technique can create a one-of-a-kind look for the customer.

[www.buddyrhodes.com](http://www.buddyrhodes.com)





Photos courtesy of Creative Surface Inspirations LLC





## PROJECT PROFILE

# Discovery Playground at Mirabeau Point Park Spokane Valley, Wash.

by Amy Johnson

**S**teel head trout rivers, bear dens, salmon runs, bighorn sheep ledges, Jurassic fossils — all hallmarks of eastern Washington state. All available for touching, climbing, wading and digging at the Discovery Playground in Mirabeau Point Park, maintained by the City of Spokane Valley, Washington.

And all thanks to concrete. From the human sundial to the giant trout in the “splash pad,” from the whimsical wavy walk to the radius wall emblazoned with a salmon’s life story, the playground was conceived by Design Concepts, Lafayette, Colo., and realized in concrete set by Creative Surface Inspirations (CSI) LLC, of Spokane Valley.

The playground is intended to stimulate all the senses and be accessible to visitors of all abilities. It provides educational and fun experiences for the hands, nose, eyes and feet around the theme “Exploring Eastern Washington.”

One of the sensory experiences is walking the wavy walkway, a kidney-shaped loop that rises five inches and falls five inches every eight feet. To cast this unique feature, CSI hand-set masonite forms. Then five workers held 16-foot lengths of flexible



PVC pipe in a wavy pattern against the forms on the inside of the loop and traced the waves with a pencil. Crews graded the substrate to match the waves (with some flat spots for connecting with access paths) and CSI poured and hand-floated the walkway in one pass. For craftsmen who pride themselves on just how flat and even their flatwork can be, the wavy walkway at Discovery Park was a walk on the wild side.

Not too wild, though, for everyone to enjoy. Like the rest of the park, the wavy walkway is completely wheelchair-accessible

and very popular with kids in motorized chairs and little ones in strollers.

The wavy walkway is part of the secret garden, entered through a 4-foot-high “keyhole” in the arch of a curved concrete wall low enough for adults to look over, but massive (and red) enough for kids to feel they’ve passed into someplace new and magical. This feeling is confirmed when they see the “objects of unusual size” — a giant’s Adirondack chair and a pumpkin large enough for Cinderella. Other objects are smaller than life size, enticing

### Project at a Glance

**Client/Customer:** City of Spokane Valley

**Description:** Playground that enables people of all ages and abilities to learn and explore

**General Contractor:** Ginno Construction Co., Coeur d’Alene, Idaho

**Concrete Contractor:** Creative Surface Inspirations LLC, Spokane Valley, Wash.

**Architect:** Design Concepts, Lafayette, Colo.

**Products:** Davis Colors integral colors: Willow Green, Euroblue (cobalt), Sangria, Sandstone; Proline Dura-Color EZ-Accent water-based acrylic stains: Colorado (red), Midnight Black, Charcoal, Slate Blue; Nox-Crete Sparkl-Seal VOC solvent-based acrylic sealer; stencils from Surface Gel Tek; concrete from Central Pre-Mix Concrete Co.







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children to find them hidden throughout the garden. Herbs, flowers and aromatic plants add to the garden feeling and enhance the experience for the sight-impaired.

Across the park from the secret garden, the rumor of a 13-foot-long steelhead trout would be a suspicious fish tale if the fish weren't in plain sight for everyone to see. The architect's vision for the fish and the water drops around it was created in 4-inch polystyrene foam. The foam molds were staked in place and red and blue concrete poured all around. Then the foam was stripped and fish-colored concrete (using Willow Green integral color from Davis Colors) was poured in the voids. In the finished piece, water sprays from tubes in the concrete "droplets" in a random pattern initiated

when a child steps on the activator set in the fish's eye.

According to Nathan Brown, managing member at CSI, Discovery Playground was one of the first





uses of blue concrete — colored with Davis Colors Cobalt — in the area. “Because of the expense we were limited in the quantity,” he explains, “so we cast it in one pour, used saw cuts to create shapes and sandblasted some areas to get a deeper-looking blue.”

Not far from the splash pond is a 25-foot sundial, with the hours and dates sandblasted into the concrete. But this sundial lacks the gnomon — the vertical piece that casts a shadow. Instead, a visitor can stand on the right date and the shadow he or she casts indicates the correct time to within one minute. The design was calculated by sundial specialists in Europe, who sent precise instructions for its placement. CSI had to place the stencil, oriented due north, at a specific time of day so that the sandblasted design would be in the right place to tell the time accurately.

Perhaps the crowning glory of CSI’s concrete work at Discovery Playground is the 60-foot radius wall telling the life story of salmon from egg to fry to adult migrating home to spawn. “It is more time-consuming to cast a radius wall than a straight one,”



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Brown explains. "It takes a lot more lumber to hold a curve and keep the thickness consistent from the footings to the top." The bigger challenge, though, was making sure the finish where the stencil would be sandblasted and stained was smooth.

To achieve the surface they needed, CSI cast the wall against a masonite form using a stamp mix containing a blend of 3/8-inch and 3/4-inch aggregate, about 1,200 pounds of aggregate in contrast to the normal 1,600. The mix contained more sand than usual and a higher volume of portland cement in order to reach 4,000 psi. They added plasticizers to improve flow and eliminate the bug holes that are common in vertical pours.

Next up was stenciling the 60-foot-long design. Surface Gel Tek supplied the stencil in 10-foot sections, all of which had to be lined

up to flow seamlessly together. To make the stencils adhere well in the cold weather, much of the work was done under a protective tent. The designs were sandblasted and then hand-colored using Proline Dura-Color EZ-Accent water-based stains.

Besides the salmon wall stencil, the park is decorated throughout with stenciled quotes and pictures of flora and fauna from prehistory. The name "Discovery Park" is apt — it is so rich in detail that there is something new to see with every visit.

Creating the park was a discovery of sorts too. "We had skilled, experienced concrete

finishers who didn't know what was going to happen next," says Brown. "We had a lot of fun, and I think that made it feel a lot less challenging. For us it was a pleasure working on this.

"We (Brown and fellow managing member Kat Mitchell) started CSI in 2009 after 18 years' experience in the industry. We were quite blessed and fortunate to get this as one of our first projects."

Brad Paulson, project manager for general contractor Ginno Construction Co., feels the same way. "We really look forward to jobs like this," he says. "It's really fun to do projects like this that the public enjoy. And it's amazing what you can do in concrete. People know it's cool even though they don't fully understand the work that went into it."

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## PRODUCT NEWS

### New trowels from Goldblatt

Goldblatt has expanded its product line of masonry products to include the new One-Piece forged-grip masonry trowels.

Each trowel is hand-forged from a single piece of high-quality carbon steel and taper-ground for perfect flex and performance. The ProGrip handle is durable, yet designed to reduce fatigue and give the user comfort all day. The trowel is available in London Brick, Margin, Pointing, and Tuck Pointing models.

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### EDCO offers new drills

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### Bon introduces Multi-Bar Paver Bar

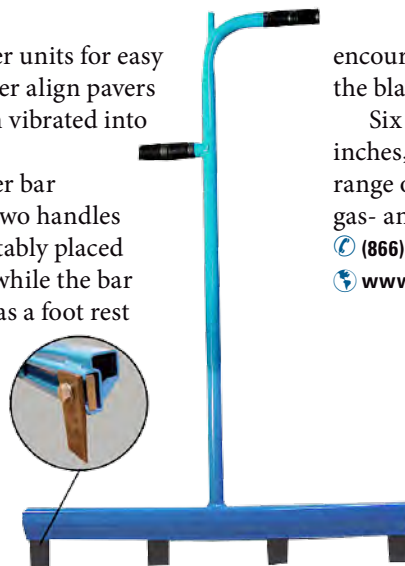
Bon Tool Co. has expanded its offering of masonry tools with the introduction of a Multi-Blade Paver Bar, a loosening and aligning bar with four adjustable hardened steel blades. The tool is ideal for

maneuvering paver units for easy removal or to better align pavers that have not been vibrated into place.

Bon's new paver bar is equipped with two handles which are comfortably placed for best leverage, while the bar itself can be used as a foot rest for additional leverage. The bar can easily move up to five rows of masonry paver units at one time. The four tempered blades can be adjusted to any location along the base of the bar to achieve the best spacing for the size of the units.

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### New line of diamond blades from Dtec

Dtec, a product division of Affinity Tool Works, has added a new line of diamond blades to its Contractor Series. By pairing a segmented design with durable construction, the Contractor Segmented blades offer the speed and performance of high-quality, expensive diamond blades, yet provide an economically priced option. The new blades are able to cut a variety of building materials such as brick block, concrete and stone.

Consisting of multiple, strategically-placed 10-millimeter-high segmented sections, the Contractor Segmented blades offer a distinct longevity advantage over typical blades that only incorporate a segment height of 7 millimeters. The increased segment height exposes more cutting surface, which extends blade life.

Furthermore, the design also prevents excessive heat buildup. The segments provide a break or "relief" in the blade's rim, preventing heat transfer and allowing the blade to run cooler in both wet and dry applications. Additionally, increased airflow and cooling reduce blade warping and

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# grinding & polishing :

## PROJECT PROFILE

### Empyrean Coffeebar Floor at Rocketown Nashville, Tenn.

by Kelly O'Brien

Once upon a time, there was a polished concrete job that was easy. It started out with a new, flawless install, a clean, even slab ready to grind. The client closed the building for a few days, providing ample, uninterrupted time to do the job. There were no hurdles. There were no surprises. Everything went according to plan.

The polish applied last March at the Empyrean Coffeebar in Nashville, Tenn., was not that job.

The Empyrean Coffeebar is part of Rocketown, a multipurpose youth center that comprises classrooms, a skatepark and a live music venue. During the 2011 Concrete Decor Show & Spring Training, the Rocketown facility received a decorative concrete overhaul, courtesy of dozens of artisans, manufacturers and suppliers. (For more details on the renovation in its entirety, see "Remaking Rocketown" in the April 2011 issue.) Although there were challenges involved in every aspect

#### Project At A Glance

**Trainers:** Brad Burns, president, Concrete Polishing Association of America; Derek Mackenzie, CPAA executive board chairman and owner, Floorlabs Inc.; Roy Bowman, CPAA executive board secretary and president, Concrete Visions Inc.; and George Gooch, CPAA trainer and Concrete Visions vice president

**Machine Operators:** Sam Lewis, regional sales manager, SASE Co., and Clif Rawlings, product manager and training coordinator, HTC Inc.

**Client:** Rocketown, a youth center, complete with skatepark and concert venue, in Nashville, Tenn.

**Length of Project:** Two days, March 14-15, 2011, as part of workshops at the Concrete Decor Show & Spring Training.

**Project Specs:** 2,500-square-foot concrete floor, to which the years had not been kind

**Tools/Equipment Used:** HTC 950RX, HTC 650RX, HTC 270EG, SASE PDG 8000, Substrate Technology STI-2417 Prep/Master Propane

**Materials Used:** Prosoco Consolideck LS, L&M Construction Chemicals Lion Hard, Husqvarna GM 3000, AmeriPolish Surelock Dye: Caramel



Photo by Steven Ochs



# “The floor was in the worst possible condition for a polished concrete job.”

— Roy Bowman, Concrete Polishing Association of America and Concrete Visions Inc.

of the Rockettown project, arguably the gnarliest was the restoration of the floor at the Empyrean.

Originally poured back in the '60s, the Empyrean's floor was home, for decades, to an engine rebuild shop. Years of deterioration had been compounded by untold gallons of motor oil and engine fluids that had seeped into the surface, causing it to soften severely. “The floor was in the worst possible condition for a polished concrete job,” says Roy Bowman, president of Tulsa, Okla.-based Concrete Visions Inc. “I’ve been polishing since 2002, and I have never cut a floor that soft.”

Bowman was one of four trainers with the Concrete Polishing Association of America who came to the event to run two back-to-back polishing workshops. The restoration of the Empyrean's floor was the hands-on portion of the class. So when Bowman, along with Concrete Visions vice president George Gooch, Derek Mackenzie of Toronto-based Floorlab Inc., and CPAA president Brad Burns, arrived to find a slab you could pretty much cut with a butter knife, they had no choice but to roll with it. Luckily, both Bowman and Burns feel that rolling with it is a big part of what the CPAA teaches.

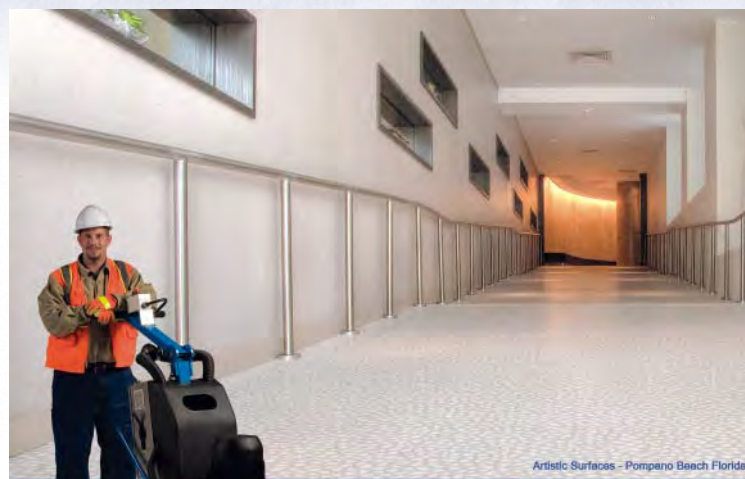
“The hardest thing about polished concrete are all the unknown variables,” says Burns. “We have the flexibility and the knowledge to adapt to that, and that’s exactly what we did.”

Bowman agrees. Dealing with the unforeseen is “really what the CPAA is about,” he says. “Part of being a craftsman is that when someone hands you a sow’s ear, you have to give them a silk purse.”

Getting the floor into polishable condition took not only several steps of grinding and cleaning — “We’d wash it and oil would leach up, and we’d wash it again and more oil would leach up,” Bowman says — but also an epic amount of densifier. A few steps into the grinding process, the team applied Husqvarna’s GM 3000 grout coat, which combines with the grinding dust to make a slurry that fills in pits in the surface. They followed that up with multiple rounds of densifier as they went through the polishing process, until the surface wouldn’t absorb any more. In addition to several applications of Prosoco’s Consolideck LS, Bowman used 7 gallons of L&M Construction Chemicals Inc.’s Lion Hard on about 700 square feet of the floor. Under normal circumstances, Bowman says, that would’ve been a good amount for 6,000 square feet.

On hand to help demonstrate the polishing process to attendees were several manufacturer reps, armed with polishing machines and years of experience. Burns says this support from the manufacturers is a strength of the polishing field. “Polishing manufacturers can all pull together for the benefit of the industry,” he says. “They’re not trying to trump each other. It’s not a competition. It’s for the good of the industry.”

Clif Rawlings, product manager and training coordinator for HTC Inc., and Sam Lewis, SASE Co. regional sales representative, were the manufacturer reps in charge of the polishing demonstrations for the workshops at the Empyrean. While both



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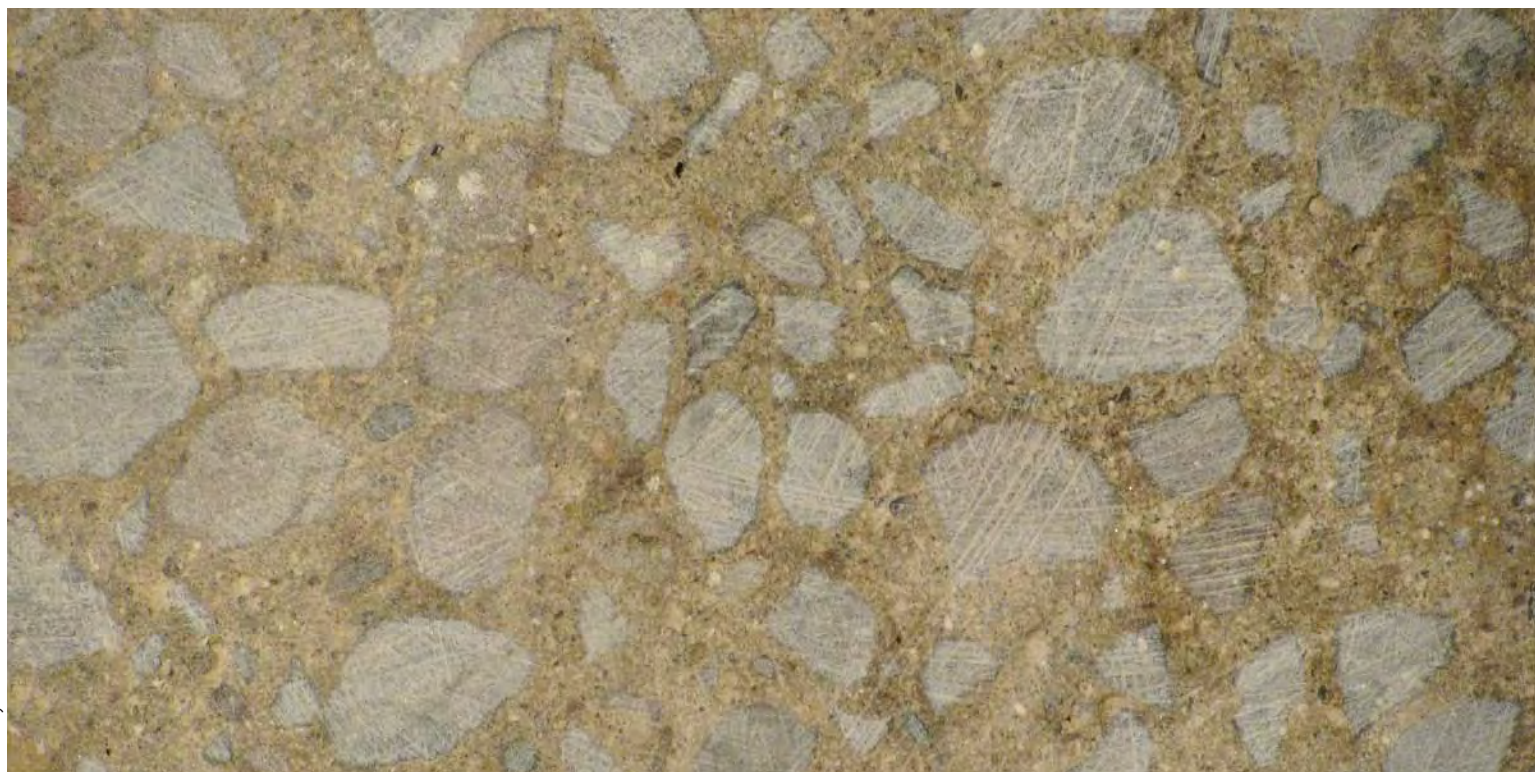
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Photos by John Strieder



The space that houses the Emyprean Coffeebar was once home to an engine rebuild shop, and the condition of the floor reflected that history.

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Jitterbug lines, seen here, were visible all over the floor of the coffee bar.

Rawlings and Lewis say the collaboration worked really well, they did hit a small speed bump when they started the floor. Each of them had a different idea about what abrasives to use on a surface that soft, and they started their sections out at different grits. Fortunately, the floor was easy to even out to the same grit, and the students got to discuss the merits of the different approaches. "Once we got past that," Lewis says, "everything smoothed right out and moved on as planned."

Well, almost as planned. After the initial grind on the floor, the



team discovered that the Empyrean had another surprise in store — a phenomenon known as jitterbug lines. A jitterbug is an old tool used for consolidation, sort of an early version of a vibratory screed. The trouble is that it consolidates the concrete unevenly, and when you grind the surface down, you expose “tiger stripes,” as Burns calls them. The entire floor of the coffee bar had lines across it, at about 2-inch intervals, of alternating aggregate and mud.

While the tiger stripes were not entirely off-putting — “It gives the floor a neat effect,” Rawlings says — they did interfere somewhat with the original plan, which was to place a logo on the polished gray floor. (Bowman says that some of the lingering oil stains also made the logo a tricky prospect.)

So they needed a backup. Fortunately, in the next room, Bobby Watson of American Decorative Concrete Supply Co. was using his company’s AmeriPolish Surelock Dyes. Bowman, seeing the caramel color they were using, had an epiphany. He realized that the dye looked almost exactly like the oil stains on the Empyrean floor. After a long couple of days with not a lot of lucky breaks, the dye discovery had given them the right hue at the right time.

ReGina Newkirk, executive director of Rocketown, was particularly happy with the solution because the caramel dye toned down the shiny silvery surface of the plain polished floor. “The diamond polishing looked really beautiful,” she says, “but it started to look like you had walked into a bank.” The dye disguised the oil stains, worked well with the tiger stripes, and really brought the floor together. Newkirk says that ultimately, the floor’s imperfections were really what made it special. “Things

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Photo by Bent Mikkelsen

The finished floor. Although some imperfections still exist, Rockettown's executive director says they give the floor character.

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that are odd and quirky and not perfect really work for us."

Newkirk says that the process of the renovation was fairly hectic. (Did we mention that Rockettown was not only open for business during the project, but also hosting a series of all-day programs for spring break?) She attributes a lot of the project's success to the fact that the artisans were careful to communicate with them throughout.

"One thing that was really nice was that the guys would take the time to explain what they were doing and what was happening and what they were finding," Newkirk says. "They were able to put it in layman's terms, and that was really appreciated."

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# grinding & polishing :

## How To Make Colors Pop in a Dye-Densifier System

by Bobby Watson

As everyone knows by now, the introduction of dye into the polished concrete industry has expanded the market enormously. The business is brimming with potential. However, we still face the significant hurdle of maintaining the integrity of an exposed concrete polished floor while protecting the dye in it against staining and moisture travel.

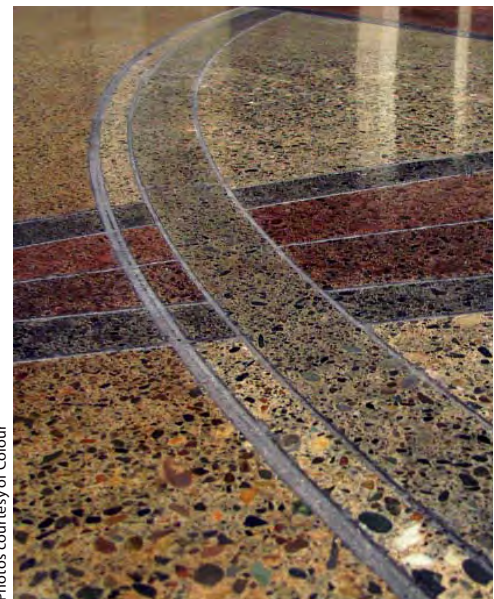
The SureLock system (from my company, American Decorative Concrete Supply Co.) is just one possible solution. Using new technology, including the combination and application of reactive SureLock Dye and SureLock lithium densifier, you can now guard your floor against a multitude of issues.

When dye and densifier are combined before application, dye gets encapsulated

into the densifier. The dye not only penetrates deep into the concrete, but also bonds itself to the concrete rather than just resting in capillaries or pores.

This step helps with stain resistance in colored floors. When a staining agent is introduced to a floor that has been colored with a reactive dye/densifier combination, the staining agent encounters less dye with which it can react. The stain will eventually push past the color without impairing it. With previous dyes, a staining agent would mobilize or loosen the dye and displace it, marring the appearance. If an etching agent (an acid) is introduced to the concrete, it may still affect the surface by impairing the gloss of the polish, but the color that is in the floor will stay there.

The same principle applies to moisture



Photos courtesy of Colour

## PRODUCT SHOWCASE



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affecting the dye on a polished floor. Because polished floors are supposed to be breathable, moisture sometimes travels through the concrete. It may be due to vapor barrier failure, the lack of a vapor barrier, or another unforeseen reason. A dye particle that is merely resting in a pore can get moved around or washed out completely, changing the color appearance. Combining densifier with the dye will help prevent this problem, because the dye gets chemically bonded in place.

### The color boost you'll need

However, when using the dye/densifier combination, it is recommended to apply stand-alone acetone- or water-based dye in conjunction with it. If you try to use only the densifier/dye combination, you will most likely not achieve the maximum color vibrancy in the floor, and you may not get the desired color result. This combination system should be used with, at minimum, one other coloring step to ensure you and your customers are getting the desired color in the polished floor.

For normal application of the densifier/dye mixture, you will want to grind your floor up to a 200-resin diamond (or a comparable diamond). Apply one coat of an acetone- or water-based dye. Allow the product to dry and then check the surface of the concrete for surface residue. If you have a lot of residue on the surface, you will want to use an autoscrubber with a white pad and water to clean the surface, allow the surface to dry, and then apply your densifier/dye mixture. Allow the floor to dry completely. (This should take no longer than one hour.) Then you are ready to run your next diamond pass over the floor.

At this point you can judge your floor and determine if more color vibrancy is needed. If more color is needed in the floor, you will want to apply another coat of dye at this time. If no color is needed you may proceed with your corresponding diamonds to achieve your desired finish. 🛠️

*Bobby Watson is in charge of East Coast sales and training for American Decorative Concrete Supply Co. Reach him at [bwatson@adcsc.com](mailto:bwatson@adcsc.com).*

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## Two Money-Making Alternatives for Polishers

As business owners, as soon as we open our eyes each day, we begin to think and search. Where are we going to find more work for our crews? Besides the usual options of bidding on new construction projects, refurbishing old polish jobs or removing epoxy coatings, there must be other ways to make money with our equipment and skills.

Let's discuss two new markets for your crews to explore: cementitious terrazzo



by Jennifer A. Faller

restoration and surface preparation for floor coverings.

### Better terrazzo through polishing

Recently, I was speaking with the head of building maintenance at a university with more than 3 million square feet of cementitious terrazzo, and he had the following complaints about his existing floors:

- The floors are high-maintenance in terms of labor, time and cost.
- They are dull and hazy-looking due to wax buildup.
- Waxing and stripping is not a "green" way of maintaining a building.

The idea of maintaining cementitious terrazzo using polished concrete techniques is music to his ears.

Concerns about polished concrete seem to be centered on the slip coefficient and life-cycle cost. A "natural" polished floor (with no wax required) looks clear and shiny, and everyone knows that shine equals slip, right? This misconception can be handled by installing a mock-up and measuring the dynamic coefficient of friction (DCOF) on a polished floor, showing that it offers more resistance than their existing waxed cementitious terrazzo floor. Let them prove the numbers to themselves.

The other big question is whether our initial "grind, densify, and polish (with stain protection)" will be cost-effective. We must explain how they will reduce their life-cycle costs by polishing their cementitious terrazzo:

- They'll have no further need to purchase products to wax and strip their floors.
- They'll no longer pay for labor to perform tedious stripping and waxing.
- They'll enjoy reduced maintenance costs due to faster daily upkeep.

The overall outcome will be better-looking, higher-performing, lower-cost floors.

The main composition difference between concrete and cementitious terrazzo is the cement-to-aggregate ratio. Cementitious terrazzo is at least 70 percent marble-chip material and 30 percent cement matrix (with a portland cement binder). This is essentially the opposite of concrete, which is typically 70 percent cement (including fly ash or slag) and 30 percent aggregate (sand, rock).

When placed, cementitious terrazzo, is poured and troweled about 1/2-inch thick over a low-strength cement bed. It is then ground flat, honed, and sealed with a

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penetrating solvent-based sealer.

Cementitious terrazzo must be waxed to achieve the shine that the owner is expecting. We produce the shine with our diamonds, not through an applied wax finish. Also, we use densifiers to make floors harder and more abrasion-resistant, while terrazzo installers do not.

Will it feel different to grind and polish cementitious terrazzo? The main difference when working on cementitious terrazzo is that it is like grinding and polishing an exposed aggregate floor, not a sand or cream finish. Once that difference is understood, and you start with the right diamond grit, the grinding, honing, densification, polishing and stain-protection application will be similar to a polished concrete job.

Think about how many colleges and universities are located within your geographic business area — many have cementitious terrazzo floors somewhere on campus. Cementitious terrazzo is also used in public schools, churches and municipal and government buildings. When those floors are polished, the owners will see that the surface looks flatter, the curls and lippage are leveled, the uneven or high divider strips are gone, the floor no longer requires stripping and waxing, and the natural beauty and color have returned. They will become your advocates and another significant source of revenue.

### Help for covering and coating installers

Our second new focus includes the floor-covering (and floor-coating) industries. They are the ones that normally take your business away, so why not take back at least part of it? Instead of competing with them, join their team.

There are three distinct services you can potentially offer to floor-covering contractors: surface preparation, calcium chloride moisture vapor testing and moisture-control coating installation. Diamond grinding plays a role in all three areas.

Every floor requires surface preparation prior to the installation of floor coverings. You'd be amazed at their surface prep approach — using cleaner-degreasers, acids, strippers and adhesive removers that must be applied, scrubbed, scraped, rinsed and neutralized, or using a buffer with sandpaper on the bottom. We know that the secret to achieving clean, absorbent concrete

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Mike Murray — Murray Decorative Concrete Supply, Inc. — May 2011

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# grinding & polishing :

is to grind the floor using our diamond grinders! Your concrete grinder with a set of 40-grit metal-bond diamonds can offer the absolute best surface preparation at a truly competitive price.

Diamond grinding also helps dry out the floor. The heat from grinding will pull out moisture, and opening the concrete pores will allow excess moisture to escape. A floor-covering installer's idea of hitting the jackpot is finding out this secret. In addition, tell them that your diamond grinder is a cost-effective method for removing a thin layer of concrete to erase all

of the construction marks, flatten the floor, and reveal a fresh, clean, water-absorbent surface.

Most floor-covering installers have not made a capital investment in grinding equipment, so surface preparation slows them down. It is the variable that will either make or break their profitability. Flooring installers understand that flatter floors are better floors that require less leveling, fitting and cutting, which means the end results will look better, with less effort during the installation. Give them a per-square-foot cost that they can simply plug in for each job so they no longer have to worry about the floor-prep cost variable, just the installation.

Another service you can offer is the installation of moisture control coatings. You understand that concrete has more moisture concentration when new. Moisture vapor levels may also be high where there are issues with poor drainage or pipe damage under the slab. With older

slabs, often either no vapor barrier exists at all or the vapor barrier may have been punctured or torn during placement of the concrete. Over time, the moisture will evaporate from the slab into the air. This vapor drive is harmless to polished concrete, but floor coverings and flooring adhesives will develop problems because of trapped moisture. When modern floor coverings (such as carpet tiles, solid-sheet vinyl, rubber floors and engineered wood laminates) trap the moisture, moisture attacks the adhesives and the floor covering may blister or warp. As a result, current floor coverings require the slab to meet limits on moisture vapor emissions. The remedy is to apply a moisture mitigation coating to the concrete to effectively slow down the moisture vapor emission rate.

Moisture control coatings must be applied to concrete that is clean, dry and water-absorbent. You can offer to install the moisture control coating once you have ground and prepared the floor — in most cases, it is like rolling an epoxy on the floor. The next day the floor coverings will be installed, and there will be one less floor that a picky owner might call you about. This is a nice contrast to the constant accountability you experience with a decorative polished concrete floor.

Third, you can prep for and even conduct ASTM-standard calcium chloride moisture vapor tests for flooring companies. These tests are inexpensive, simple to learn and easy to conduct. Better yet, surface grinding must be performed before the testing can be conducted.

These new income opportunities — restoration of cementitious terrazzo and surface preparation and moisture control for other installers — can be the answer to that nagging concern about finding more work for your crews. 🛠️

*Jennifer A. Faller has been in the surface preparation industry for the past 15 years as a decorative concrete contractor, technical consultant and owner of a distribution company. Currently, she is business development manager for Vexcon Chemicals and lead trainer for the Certi-Shine brand of polished concrete materials. Contact her at [jfaller@vexcon.com](mailto:jfaller@vexcon.com).*

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## PRODUCT NEWS

### New advances for the Legend CT

It's been a year since Samich USA introduced the Legend CT. The initial success of the machine has not stopped Samich USA from finding ways to improve on the machine, however.

One of the most exciting new changes to the machine is its handle configuration. This change allows each machine to be built with a mounting bracket for a large swing-machine-style handle so it can be used on a floor. The additional of an optional tall handle converts the Legend CT into the world's smallest planetary floor machine.

Samich USA has also released a small version of the Legend CT. This version is exactly the same as the larger counterpart, except that it has 4-inch tooling heads and an 11-inch footprint instead of 5 1/2-inch heads and a 13-inch footprint.

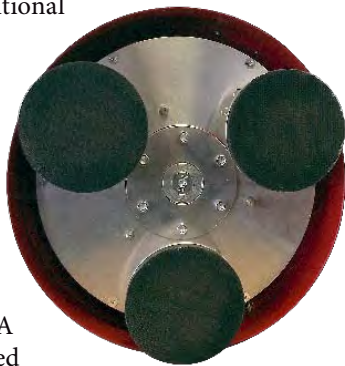
[www.samich-usa.com](http://www.samich-usa.com)

### Ergonomic polisher from HTC

Edge grinding can be time-consuming, and ergonomics and edge grinding have never really gone hand in hand. This is why HTC has developed a new and unique edge grinder, the HTC 270 EG.

The unique design of the grinding head, which measures only 100 millimeters in height with EZchange tools attached, ensures that the operator can grind below shelves and radiators. The machine reaches as far in as 260 millimeters. The combination of HTC's EZchange tools and the special opening in the grinding cover allows the operator to grind all the way up to a wall without any need for extra touch-up work afterwards.

The operator can adjust the grinding head along both the X and the Y axis. Furthermore, all settings are easily adjusted without any need for special tools.



With the HTC 270 EG the operator walks behind the machine during the complete grinding sequence. The machine handle can also be set to many different positions, which ensures that any operator, no matter how tall, will have a comfortable working position.

In addition to the features mentioned above, the HTC 270 EG can be disassembled for easy transportation. It is equipped with HTC's floating cover for better dust collection.

[www.htc-floorsystems.com](http://www.htc-floorsystems.com)

### WerkMaster releases Viper

WerkMaster has added the Viper to the family of WerkMaster ULTRA Floor System products.

Making the Viper truly unique is that it functions like seven different machines, working like a grinder, polisher, edger, sander, buffer, burnisher and stripper. It can grind and polish stone, terrazzo and concrete, as well as strip vinyl floors and refinish engineered and traditional hardwood floors, and it can be adapted for carpeted floors as well. It is ideal for maintaining or refinishing lobbies, kitchens, offices, hallways, loading docks, garages, pool areas, gymnasium floors and so on.

The Viper is easy to use. Operator-friendly features include a 17-inch, lightweight 160-pound footprint, a variable-speed motor, and a folding handle for easier transport. It edges to within 1/8 inch of a wall and incorporates WerkMaster's proven, patented Octi-Disc Technology. The Viper uses a powerful 110-volt motor.

The Viper also features the Ultra-Flex Plug 'N Go System, which allows the machine to flatten a floor or follow a very wavy, uneven floor using the same drive tools and drive plates.

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# pools & hardscaping :

## PROJECT PROFILE

### Stone Creek Club & Spa Covington, La.

by David Searls

**W**ith Louisiana ranked as the state with the nation's second highest precipitation rate, and New Orleans being the third rainiest city in the United States — well, it might not be a surprise that spring showers play a major part in the story that follows.

“Bubble-up showers happen around here as the weather warms up,” says Will Burley, production manager of Concrete Coatings Inc., of Hammond, La., an hour outside of the Big Easy.

Concrete Coatings is a Sundek dealer owned by Scott Burley, Will's uncle. It's a decorative concrete resurfacing contractor handling pool decks, patios, terraces and other exterior surfaces for commercial and residential customers in metropolitan New Orleans, south Louisiana and other points along the Gulf Coast.

The assignment that came from RCI, a major landscaping contractor in Slidell, La., was to resurface nearly 14,500 square feet of freshly poured concrete for the pool deck, bar area and tennis-court viewing area of the newly constructed Stone Creek Club & Spa in Covington, La. Concrete Coatings would use Sundek Classic Texture, an acrylic spray texture system, in two custom finish coat colors.

The cooler-than-concrete, slip-resistant surface is a natural for outdoor pool areas and the sort of job Burley and his crew could do in their sleep:

Using a hopper spray gun, they'd apply a base stipple coat, consisting of a dry mix combined with a liquid polymer, to cover any surface imperfections in the poured concrete.

They'd apply the texture coat — the same mix as the base coat but with a different consistency, also shot from a hopper gun, then knocked down with a trowel.



Photos courtesy of American Society of Concrete Contractors

They'd spray the finish coat, a two-color acrylic paint with sealer.

They'd stand back and admire.

It would typically take five days tops, according to Burley.

Simple? It was. On paper. But jobs that look simple on paper can be a whole lot more complex when the job site has become totally waterlogged over the course of a drenching 72 hours. Especially when you add a bone-dry deadline that's not going to move for anything — not with a grand opening in the works.

And yet Concrete Coatings pulled it off, and in such style that the company won recognition from the American Society of Concrete Contractors Decorative Concrete Council during its third annual awards competition earlier this year.

#### “Against our better judgment”

Burley's first warning that the project might turn out more complicated than planned came when his crew began the job.

“Only half the saw cuts had been installed, transferring the burden of completion of 2,900 linear feet (of saw cuts) to us,” Burley wrote in his ASCC DCC contest submission, describing what he and his crew were up against.

Once they'd cut, cleaned and stippled 12,528 square feet of concrete surface, the

#### Project at a Glance

**Client:** Stone Creek Club & Spa, Covington, La.

**Decorative Concrete Contractor:** Will Burley, Concrete Coatings Inc., Hammond, La.

**Architect:** Ohlson Lavoie Collaborative, Denver, Colo.

**General Contractor:** The Lemoine Co. LLC, Lafayette, La.

**Project Manager:** Mike Rotolo, RCI, Slidell, La.

**Timeline:** Five days

**Project Specs:** Resurface 14,348 square feet of pool deck, bar area and other exterior surfaces, using an acrylic spray texture overlay

**Materials Used:** Sundek Stipple base coat, Sundek Classic Texture finish coat in custom colors



sky turned ominous.

Mike Rotolo of RCI, the landscape contractor on the project, shrugs off the project's weather complications. He's lived and worked in south Louisiana long enough to know that you take what the elements give you. "We're one of the last trades to go in, so the deadlines are pretty firm regardless," he says. "And we're all used to the weather out here."

Meaning that when storm clouds gather, it's the threatening sky that must be ignored, not any of the contractual obligations. And the general contractor had expressed a firmly held view that the pool deck must get refinished on time.

"We would have loved to have waited out the weather, but we didn't have the luxury because of the deadline pressure," Burley explains.

So he and his crew learned to work without looking up. Not that ignoring the problem made it go away. Not a chance.

"We proceeded against our better judgment and lost 8,000, 6,800 and 5,500 square feet of texture coat on three different occasions," Burley says. "The rain came during the day, after we'd shot the texture. So we'd spend the rest of the day removing and clearing and pressure-washing so we could start all over again the next morning."

It meant working faster and harder "between raindrops" to get the job done. Once the texture had finally been successfully applied, Burley's crew scraped, stoned and ground the deck to prepare it for the finish coat.

Initially, they at least had the small comfort of an access road so they could drive their gear right up to the job site. "But then the landscaping got put in and we lost our road," Burley says. "From that point on, we had to park maybe 200 yards away and lug 45-pound bags of mix and 60-pound buckets of additives from the staging area in the mud."

### Blue skies

As always happens, the rains finally stopped. Burley and crew finished the job by spraying two custom colors of Sundek Classic Texture finish coat in a striped pattern.

The whole process took as much as

double the five days Burley had predicted the job would take, "but there are no shortcuts," he says. "The material has to set up before you can get to the next step. It's a waiting game."

The wait was worthwhile. Stone Creek opened on time and Rotolo of RCI barely remembers the weather constraints his decorative concrete pros were under.

"The project turned out great," he says. "They're our go-to guys on that type of work. They helped solidify us with the client, and we've since picked up more work from the general contractor (The Lemoine Co. LLC, based in Louisiana)."

As for Concrete Coatings, as noted, the company won second place recognition



in the Overlay/Spray Textures, Over 1,500 Square Feet category from the ASCC's Decorative Concrete Council in January for the Stone Creek project. So everyone's happy. Blue skies all around. 🚚

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# staining & coloring CONCRETE :

## PROJECT PROFILE

### Diablo Grande Golf Course & Country Club Patterson, Calif.

by Glen Roman, with Amy Johnson

In this industry we've all seen our share of old and faded colored concrete that has been bleached out by the elements and is in need of some type of color fix or restoration. That was the condition of the existing stamped concrete at Diablo Grande Golf Course & Country Club, near Patterson, Calif. The owners wanted to improve the facility by updating the existing hardscape and adding a new covered concrete patio and outdoor bar, along with some new walkways and stairs to expand access from the clubhouse to the course.

The challenge was how to make roughly 20,000 square feet of new concrete and faded, outdated old concrete blend together seamlessly so no one could tell where one ended and the other began. Removing the



Photos courtesy of Staintec

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# "It all matches like everything was one continuous pour."

— Chad Pometta, CP Landscape and Design

old concrete was not an option due to cost and because it would have shut down access to the clubhouse.

That's when my company, Staintec, received a call from Chad Pometta, who owns CP Landscape and Design, the Patterson, Calif., company in charge of the concrete renovation and landscaping at Diablo Grande. (He's also a resident of Diablo Grande.)

After we talked on the phone about the specifics of the project, Chad arranged for me to come up to Diablo for a job walk. We also consulted with the principal owners on the best process to give them the new color and design they wanted for all the concrete, new and old.

For me the answer was simple. I realized this was the perfect project for the NewLook Solid Color Stain system. I utilize this system a lot in my business, for several reasons. It's a very cost-effective color application that allows me any color combination required for almost any concrete concept. It was capable of making

## Project at a Glance

**Project:** Diablo Grande Golf Course & Country Club, Patterson, California

**Scope of project:** Color new and existing concrete so that the color is continuous and uniform.

**Owner:** World International, LLC

**Contractor:** CP Landscape and Design, Patterson, California  
www.cplandscapeanddesign.com

**Concrete Colorist:** Glen Roman of Staintec Decorative Concrete Systems, Rancho Cucamonga, California

www.staintec.com

**Products used:** NewLook Solid Color Stain: Caramel (base color), NewLook Solid Color Stain: Maple (borders), NewLook Translucent Enhancer: Maple (antiquing), Concrete Coatings SuperSeal 20WB Water-Based Acrylic Sealer

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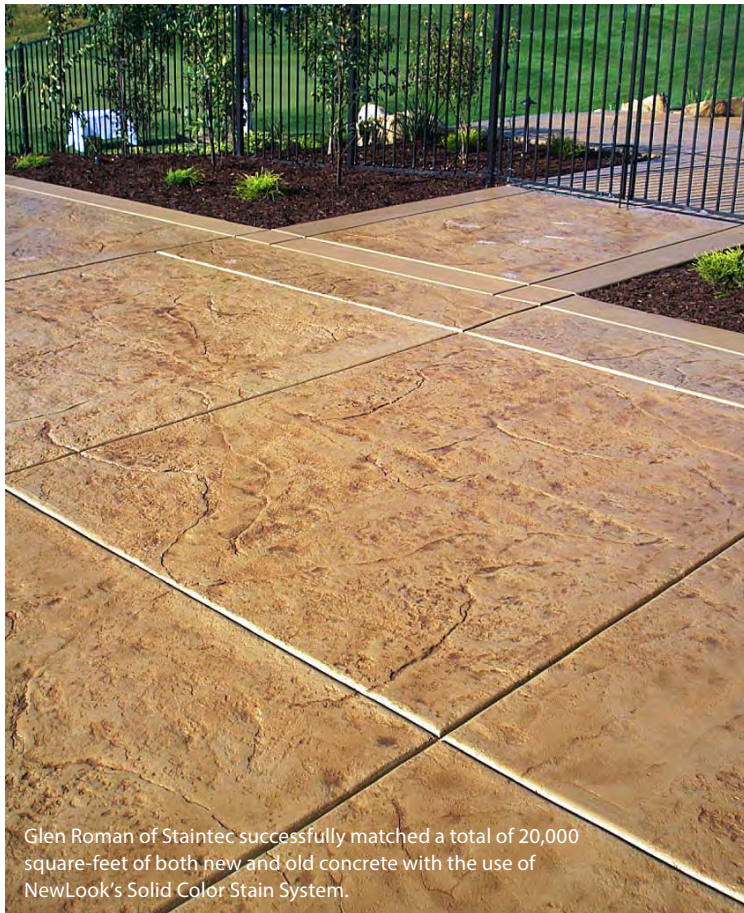
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the new and old concrete match perfectly. What's more, over time, the product breaks down to a natural appearance without flaking or peeling and holds up very well to routine cleaning. This makes for hassle-free color and sealing maintenance, which in turn means no headaches down the road for the owners.

After deciding to move forward, the first step, as with any high-profile project like this, was mock-ups. We were able to demo different base and antique color combinations, along with the color for the borders, on the actual area of concrete we planned to stain — we colored back over that area when we did the job. This allowed the clients to see first-hand how the sample colors would actually look next to the palette of golden browns and earthy tans of the new pillars and stonework. These colors were a huge contrast to the original, drab salmon-colored integrally colored concrete they were so used to looking at every day.

Next, CP Landscape and Design placed 20 yards of new concrete. After a curing time of 30 days, both the new and old concrete were ready for their color makeover.





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Glen Roman applies an acid wash over the freshly placed concrete.

about production.

Using a unique NewLook applicator brush designed to hold wet material in the fibers, we basically flood the stain over the surface of the concrete, brushing it into joints and texture, allowing the concrete to soak in the stain for uniform coverage. Then we back-brush, almost buffing the stain in with the brush until it is dry. It is so forgiving you can actually walk on it and through it while brushing with no fear of making any footprints, just buffing out any wet areas as you go. A two-coat process is required with only a one-hour wait time in between coats. When done, everything dries equally and very opaque, giving us a new

solid base color to antique.

There are a couple of precautions to take when working with NewLook stain. One, avoid working with it on very hot days. If the concrete is too hot, the material can essentially cook before it can be broomed in and dry naturally. If your shoes start to stick when walking on the stain, it's too hot! Hot conditions will also drastically affect your cover rate and workability.



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# "You can't even tell what we went over."

— Chad Pometta, CP Landscape and Design

Two, control mixing and agitation for consistency of color. On large-scale projects, uniform appearance is paramount and consistent mixing and applications methods must be followed.

For this exterior stamp texture application, the NewLook Enhancer series "antique" system was applied wet but evenly over the surface using the same NewLook brush. We were careful to not overapply. Unlike with the base coat, we just let the fluid settle in all the texture and sit undisturbed until it completely evaporated, leaving only a light color film of the antique color.

We paid special attention to maintaining a wet edge to avoid any application marks. To do this, we applied material in the shade of the morning or at dusk. We were then able to lay down large areas of the antiquing fluid without rapid drying or fear of brush marks.

The obvious choice to finish this project was a quality water-based gloss sealer applied in two thin coats and blown dry with a leaf blower. We chose a Concrete Coatings water-based sealer, SuperSeal



20WB Water-Based Acrylic, to go over the NewLook because it breaks down and oxidizes with the product over time, and after just a light power washing, you can reseat or apply a fresh touch-up color coat.

Chad Pometta describes the end result: "You can't even tell what we went over. It all matches like everything was one continuous pour. There was a huge cost savings, too, with the concrete we were able to leave in place."

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# staining & coloring CONCRETE

## PRODUCT NEWS

### New brushes designed for applying stains, sealers and coatings

Corona Brushes Inc. has introduced two new stain brushes for fast, more efficient application of stains, sealers and wood-protective coatings.

The Easy O is handmade with select white china bristles and is ideal for solvent-based stains and protective coatings. The Easy L is handmade with a nylon and

polyester blend ideal for acrylic and all stains.

The brushes feature a rust-resistant nickel-plated steel ferrule permanently secured with epoxy cement using Corona's



unique Permaset method. The plastic grips are removable so users can use the brushes with extension poles for faster, easier coating of decks, fences, walls and exterior wood surfaces.

(800) 458-3483

[www.coronabrushes.com](http://www.coronabrushes.com)

### New colors in Westcoat Fast Stain line

Westcoat Specialty Coating Systems has added several new colors to their Fast Stain line, bringing the total to 18.

The new colors are: Aquamarine, Grey, Pink, Sage Green, Royal Blue, Kelly Green and Red Brown.

Westcoat's Fast Stain Grind and Seal System is a process that involves grinding concrete and applying Westcoat's acetone dye and sealer. The Fast Stain Grind and Seal System is ideal where a dye with a protective sealer is required. The system includes grinding the concrete with a graduated set of diamonds, coloring with Westcoat Fast Stain, and hardening and densifying with Westcoat's Lithium Silicate or Sodium Silicate. There are no caustic ingredients used, making it an environmentally friendly system.

[www.westcoat.com](http://www.westcoat.com)

### L.M. Scofield announces 2011 decorative concrete contest

To coincide with its "The Colors of America" marketing campaign, L. M. Scofield Co. has kicked off its 2011 Decorative Concrete Awards Contest with the theme "Show Us Your Colors." This contest is open to anyone who has used or specified Scofield systems on any restoration or new construction project in calendar year 2011.

In addition to the Grand Prize and Runner-up winners that are awarded every year, Scofield will be giving away a special prize to three projects that judges feel best exemplify the theme "Colors of America." This special category is not limited to the colors red, white and blue and will be open

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to interpretation by the judges.

The Grand Prize winner will receive an engraved cut-crystal trophy, and finalists will receive commemorative plaques. Winners will receive write-ups in key industry media channels such as magazines and websites.

To help drive the excitement, Scofield is giving away one free "Colors of America" T-shirt to each company that submits an entry or entries into the awards contest. These vivid shirts have Scofield's "winged star" design on the back.

[www.scofield.com/dcawards](http://www.scofield.com/dcawards)

### Three stains from Nawkaw

Nawkaw has introduced a new line of lithium stains for concrete and masonry.

Nawkaw LiTHN is a durable lithium stain that has the ability to penetrate and bond to dense materials. The thin base keeps surface texture from being covered up. This vibrant color option will not fade, peel or blister.

Nawkaw LiTHX is a thicker version of LiTHN lithium stain. It also has the ability to penetrate and bond to any concrete or masonry surface, but it has a more paintlike appearance, for those times when you may want to hide slight surface details or imperfections.

Finally, Nawkaw LiMTX is a metallic version of the lithium stain, and it has the ability to mimic actual metallic surfaces. The product can produce the metallic effect on highway overpasses, concrete bridges, or other concrete structures and surfaces.

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# stamping & texturing CONCRETE

## TROWEL & ERROR

### Maintaining Sealed Stamped Concrete

What do you think of when you hear the term “sealer maintenance”? If you are like most in the industry, the first thing that comes to mind is waxing or buffing a previously sealed interior floor. Well, with spring upon us, it's a great time to talk about another kind of sealer maintenance — maintaining exterior stamped or textured concrete.

Maintenance of exterior concrete is as important as maintaining interior concrete when it comes to aesthetics and protection. Most can agree that without the right sealer, stamped concrete can look drab and washed



by Chris Sullivan

out. The sealer is what brings out the color and adds the finishing touch. It also serves as the critical protective barrier to common everyday dirt and contamination. So why then is so little attention paid to maintaining sealers on exterior stamped work as compared to interior sealing?

Before we can maintain sealed stamped concrete, we need to understand what we are maintaining. By far the most common sealer used on exterior stamped concrete is a solvent-based acrylic product. These can be cure-and-seals or straight sealers, with typical solids ranging from 15 percent to 30 percent. Acrylics fall into the thin-build category of sealers, with cured dry-film thicknesses ranging from less than 1 mil to 2 mils — very thin. These types of acrylic sealers provide the best cost-to-performance

ratio for the task at hand. Another reason we see solvent-based acrylics used so often is because of their recoat ability. They exhibit great intercoat adhesion when applied on top of each other, a factor that comes into play when resealing.

The industry standard for maintenance of exterior stamped concrete seems to be some variation of the following: Reseal every one to three years, depending on environment and type of traffic, using the same sealer as was originally applied. Reseal in the spring when the threat of cold weather has passed.

While this is pretty general, with room for interpretation, it pretty much covers all the key points. What it fails to mention is that maintenance should be going on in those one to three years. Stamped concrete

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is an investment that often costs two to five times what its plain gray counterpart costs. If an end user wants to keep their investment looking its best, they have to take ownership of and responsibility for that investment. This is where the disconnect often takes place.

Pay \$15,000 for a new car and you know that regular maintenance (oil, tires, fluids, etc.) is part of the deal for the life of the car. Now have someone pay that same \$15,000 for a new stamped concrete patio. They see concrete with no maintenance. It's colored, resembles stone or tile, and costs more to install, but in the end it's concrete. Unfortunately this is bred into our society, as all concrete is lumped together in a category of materials that last forever, serve a purpose and require no maintenance. This is why it is so important that the installer sell stamped concrete as the high-end investment it is. That includes presenting detailed maintenance guidelines before the contract is signed and work begins.

A few of the key maintenance guidelines for stamped concrete that I promote:

**Keep it clean.** Sand, dirt and grit are what really eat up sealers on exterior stamped concrete. The small razor-sharp edges act like sandpaper every time someone walks across the surface or the wind blows. Regular sweeping or light soap-and-water washes can make a huge difference in extending the life span of the sealer.

**Easy on the salt.** While salt itself is not the culprit, what it does to water is. Salt reduces the freezing temperature of water, increasing

the number of freeze-thaw cycles. This increased number of water expansions and contractions affects the concrete. You want to minimize the amount of standing water on the concrete during the cold freeze-thaw months to minimize the potential for damage.

Encourage shoveling instead of salting, and if salt must be used, sweep off the excess salt and melt water once the snow has melted. I even encourage owners who use salt to hose down their stamped concrete on those occasional warm days in the winter. Absolutely NO SALT on concrete less than 12 months old!

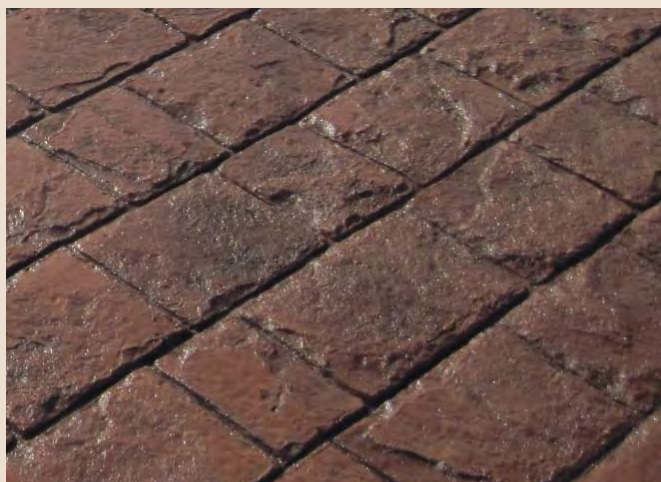
**Think thin on the reseat.** When the time comes to actually reseat, go thin. The sealer should go further than the stated coverage rate on any reseat. Remember, you are not applying a base coat — you're reinforcing what is already down on the surface. Don't reseat every year as a matter of rule, but rather as needed when the old sealer has worn down.

**Strip the old to make room for the new.** In time, all good things come to an end. This holds true for properly applied sealer on stamped concrete. After many years and multiple reseals, dirt and contamination will naturally get ground into the sealer to the extent that regular cleaning will no longer get it out. At this point the stamped concrete will not look good, even after resealing. This signals the time when stripping off the old layers of sealer must be done so you can start over from a clean concrete substrate. Stripping sealers from stamped concrete sucks, and that is an understatement, but over a long time and many reseals it may become necessary.

**Call the installer.** Consider maintenance as a new revenue stream. Instead of installing the stamped concrete and hoping the client loses your business card, set yourself up as the company that comes back each year and gives the stamped concrete a spring cleaning and maintenance evaluation — for a small fee. If resealing is necessary, you get the job and have created a repeat customer.

I look at sealer maintenance the same way I look at buying new

## PRODUCT NEWS



### Baltic Cobblestone stamp from Butterfield

Butterfield Color has introduced its latest stamp, the Baltic Cobblestone.

This stamp derives its name from the picturesque Baltic region, with its narrow streets of cobble. The stamp itself is larger than the average cobblestone stamp, so it covers more area in a single placement, cutting stamping time and effort.

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tires for my truck. It's something I was told I would have to do depending on the road type and drive time. They are washed regularly, keeping them looking good. I don't think about replacing them very often. When I do want to know if the time has come, I do a visual inspection instead of following an arbitrary time schedule. And lastly, when the time comes, I have them installed by a professional who has the right equipment and stands behind the work. 🚚

Chris Sullivan is vice president of sales and marketing with ChemSystems Inc. He has presented seminars and product demonstrations throughout North America, including at the World of Concrete convention. Contact him with technical questions at [trowelanderror@protrade.com](mailto:trowelanderror@protrade.com).

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## Stamping Recipe

by Kelly O'Brien

### Haute and Hand-Crafted

Percy Concrete & Design Inc., Wrentham, Mass.  
www.concretedesignsolutions.com

This gorgeous interior finish echoes the classic look of Belgium stonework by combining a handful of texture skins with a variety of innovative touches that add to the floor's natural look.

### Ingredients:

Butterfield Color Uni-Mix Integral Color:  
Lanon Stone

Butterfield Color Texture Skins: Italian Slate,  
Heavy Stone, Brick Touch-Up Skin

Butterfield Color Clear Liquid Release

Butterfield Color Perma-Cast Powdered  
Release: Storm Gray

Mineral spirits

Butterfield Color Clear Guard 2.92 VOC Cure  
& Seal

Butterfield Color Flattening Paste

Butterfield Color Perma-Cast Shake-on Color  
Hardener: Cape Cod Gray

Butterfield Micro-Cem Polymer

Standard tile grout

Special equipment required: Heavy gauge  
chain, a 4-inch hand-held angle grinder with  
a 3/8-inch diamond blade, grout gun, flat  
brick jointers (various sizes), HVLP sprayer

### Directions:

For an interior installation like this, it's important to make sure the floor has been carefully engineered to support the weight of the concrete. Once your support structure is built, mix your concrete with half the recommended dosage of the Lanon Stone integral color and place. This particular floor was done with a 4,000-psi pea gravel mix placed over radiant heating at a 4-inch slump.

Once the concrete is in place, stamp the entire floor with the seamless Italian Slate skins using the liquid release. Then go back over the surface with the Heavy Stone and Brick Touch-Up skins at random to increase the variety of the textures.

Let the concrete cure overnight.

The next day, take lengths of heavy gauge chain and throw them up in the air, letting them fall onto the surface, which will add some random distressing to the floor.

The next step is to cut the grout lines. Rather than stamping a tile pattern, the contractor and homeowners came up with a custom pattern of 2-foot-wide tiles with

varying lengths. By designing their own pattern and hand-cutting authentic grout lines, they added significantly to the floor's natural stone look.

To cut the grout lines, mark your tile pattern on the surface. Using hand-held angle grinders fitted with 3/8-inch diamond blades, go over the floor and cut the joints to a depth of at least 3/8 inch to allow for proper grout depth. Twisting the grinder slightly to the left and right as you cut the grout lines will serve to distress the edges of each tile. You should also take the grinders to the corners of your intersections to further add to the floor's look of natural wear.

Once your grinding is done, clean the surface thoroughly to remove all dust and foreign materials, and let dry completely.

Mix 12 ounces of Storm Gray powder release with 1 gallon mineral spirits in a 5-gallon pail, then strain and pour into your sprayer. Apply this mixture randomly to the surface, which will give the finished floor an antique look.

Let dry for four hours or until surface moisture is no longer present.

Mix the quart of flattening paste into

5 gallons of Clear Guard sealer, and apply a coat over the entire floor. Let set overnight.

The next day, it's grout time. Mix 3 parts Cape Cod Gray color hardener with 1 part polymer and add tile grout until you have a pudding-like consistency. Using a grout gun, one person should fill the grout lines, while several others follow behind with flat brick jointers to profile the grout. You want a small reveal so you can see the carefully distressed edges of your tiles. Let grout cure overnight.


The next day, clean the surface thoroughly, and apply a second coat of sealer to the entire floor. 



Photo courtesy of Percy Concrete & Design Inc.





Renovations to the J. Paul Getty Museum at the Getty Villa had to provide structural support and be aesthetically pleasing at the same time. Here, the lower "strata" on a site retaining wall uses exposed decorative red aggregate. The horizontal slab contains the same red aggregate.

Photos courtesy of The J. Paul Getty Trust



## PROJECT PROFILE

### J. Paul Getty Museum at the Getty Villa Pacific Palisades, Calif.

by Elizabeth Gillette Offensend

Located in Pacific Palisades, Calif., near Los Angeles, the J. Paul Getty Museum at the Getty Villa is billed as one of the most visited museums in the United States. Dedicated to the study of ancient culture, the museum features art from Greece, Rome and Etruria. After an extensive five-year renovation, the Getty Villa reopened its doors in 2006 to an estimated 1.3 million annual visitors.

The primary design focus of the renovation was to modernize the existing museum, which is a replica of a Roman villa buried in the eruption of Mount Vesuvius. To meld with the museum's aesthetic, the project's architects, Rodolfo Machado and Jorge Silvetti of Machado and Silvetti Associates, Boston, Mass., blended the vision of an archeological excavation with the technological requirements of a modern building. Executive architect SPF Architects, of Los Angeles, and general contractor and decorative structural and vertical concrete subcontractor Morley Construction Co.



#### Project at a Glance

**Client:** J. Paul Getty Museum at the Getty Villa

**Site size:** 60 acres

**Project cost:** \$249 million (entire renovation)

**Project length:** 8 years (including several years of planning, budgeting, modeling and mock-ups)

**ASCC DCC Awards won:** First place in the American Society of Concrete Contractors Decorative Concrete Council's 2011 Awards in two categories: Vertical Applications – Over 1,500 Square Feet and Multiple Applications – Commercial – Over 1,500 Square Feet

**Architects:** Rodolfo Machado and Jorge Silvetti, of Machado and Silvetti Associates, Boston, Mass.

**Executive architect:** SPF Architects, Los Angeles

**Contractor:** Morley Construction Co., Santa Monica, Calif.

**Subcontractors:** Morley Construction Co.: structural and decorative structural concrete. Shaw and Sons Concrete Contractors, Costa Mesa, Calif.: decorative topping slabs. Superior Gunite Construction, Lakeview Terrace, Calif.: decorative shotcrete. Willis Construction, San Juan Bautista, Calif.: precast elements.

executed this vision using a huge array of decorative concrete surfaces.

Earlier this year, decorative concrete at the site was recognized by the American Society of Concrete Contractors Decorative Concrete Council in its annual Awards announcement. The museum project won first place in Multiple Applications — Commercial and Vertical Applications categories.

While the architects for this project had specified the use of decorative concrete in the past, they had never worked with it on the extensive scale that this project necessitated. "The architects were tasked with challenges such the need for parking, increased visitors, and new visitor services such as an auditorium, cafe, bookstore and outdoor amphitheatre, to name a few," explains Morley construction coordinator Bill Boehle. "Although the 60-some-acre site seemed large, the existing museum

structure sat in a deep canyon, and there was very little flat adjacent ground.

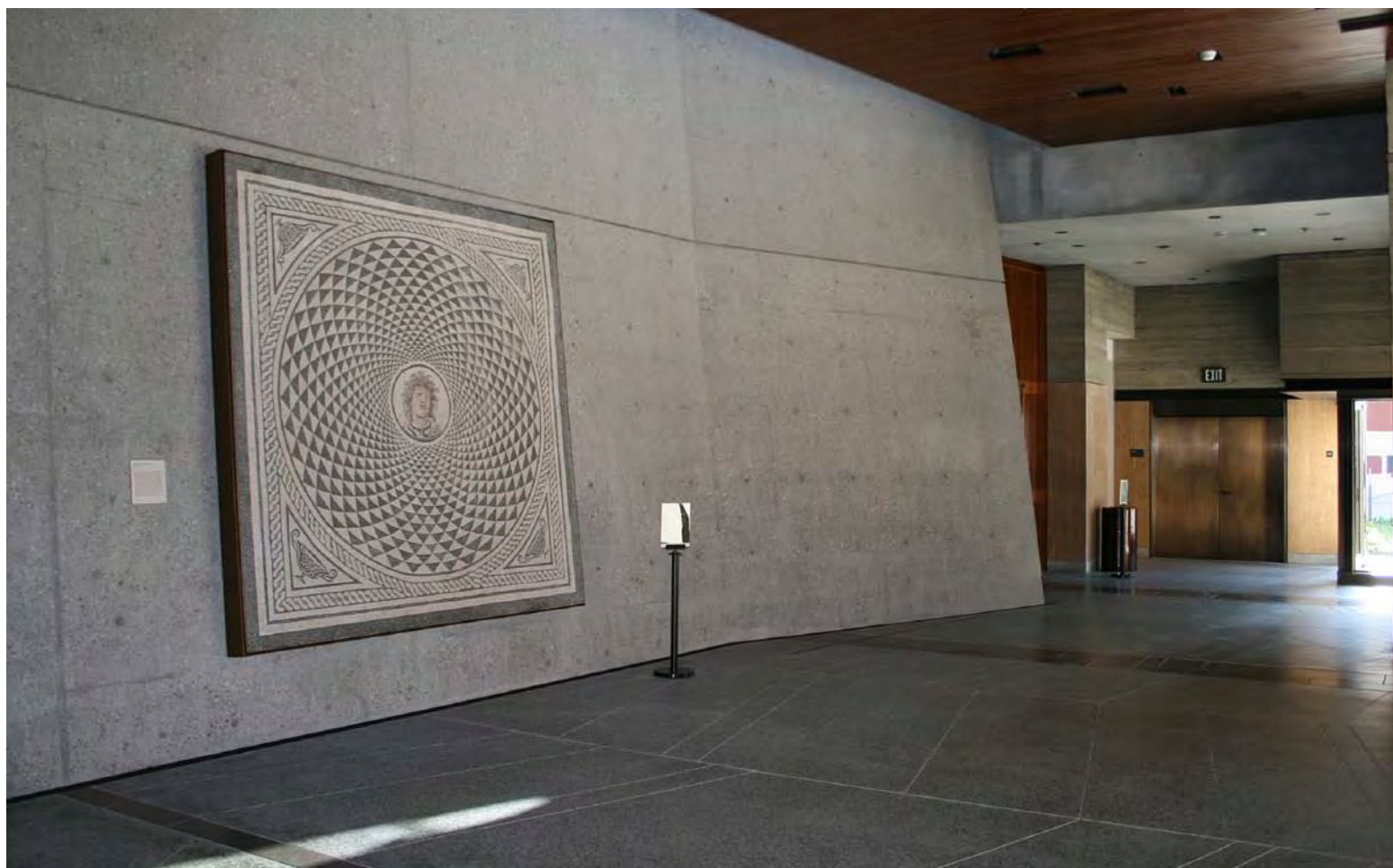
"To accommodate all of the new programming required, it was obvious to the designers that they would have to do expensive earthwork and bury many of the structures into the hillsides. This meant retaining walls."

The new buildings are all concrete. And where exposed to public view, the walls are in fact decorative structural elements. "The decorative nature is gained by techniques such as using heavily sanded board forms that replicate deep wood grain or casting the walls with a mix that contains colored aggregates and exposing that aggregate by sandblasting or grinding," says Boehle. "Other materials were introduced into the structural concrete by cladding or inserting into blockouts in the walls."

The new structures needed to work with the Roman theme of the original



# CONCRETE walls:



museum. This idea inspired the Strata Wall. “The Strata Wall intimates or implies an archeological excavation where one encounters differing layers of earth and changing materials,” says Boehle. “The new design mimicked this naturally occurring stratum, and the buildings became a mixture of layers of wood, bronze, stone and concrete.”

An important design specification was that the strata elements needed to appear three-dimensional. Horizontal and vertical finishes needed to look the same — something that is difficult to achieve when placing concrete systematically. “Imagine a large block of concrete made of a homogeneous material, and we carved out stairs or other shapes,” Boehle explains. “The exposed surfaces of that block would look the same as if we carved it out of a block of granite. But in construction, we build in elements. We do walls first, then come back later and do horizontal surfaces.



Each method is traditionally a different method of casting concrete, and to achieve the same look for vertical pours as well as horizontal ones was a situation that needed to be worked through."

Additionally, the vertical elements were mostly functional retaining walls, which mandated different methods of pouring from the horizontal walking surfaces. The techniques were different for each application but the results needed to be similar. The team first brought the structural walls as close to the desired effect as possible and then matched nonstructural elements to the vertical walls.

"The structural aggregate in the mix needed to be both decorative, since it was to be exposed, and structural, because it needed to hold up the building," Boehle says. "We searched for many months and did many trials to find suitable colored aggregates that met ASTM specs and were decorative enough for the designers."

Once that was finished, they experimented with sandblasting, grinding, sandblasting, grinding, retarders and water-blasters to expose the aggregate. Eventually, all of the methods were used at various strata elevations, says Boehle.

The board-formed structural walls were a solution for creating a deep rustic wood-grain surface, but they provided their own challenges. The contractors mocked up multiple trial batches using various species of wood and different combinations of form release materials. Some wood species left a colored residue that was unacceptable, some wood could not accept the sandblasting, and some just did not do the job. Boehle explains that the sandblasted boards themselves were back-screwed to the plywood form and varied in length, height and thickness. "The forms needed to be sealed tight, the crews casting the walls had to place and consolidate the mix just right, and the forms had to be removed with extreme care," he says. "Each wall was in essence a unique mold."

Other than the finished retaining walls, all the horizontal surfaces are nonstructural topping slabs placed on structural subslabs. Where the strata called for exposed aggregate, the topping slabs were treated by broadcasting loose aggregate into wet, freshly placed slabs. Boehle says the

aggregates were then tamped, cured and exposed via grinding and acid-washing.

Similar methods were used on vertical surfaces such as stair risers, except small batches of concrete packed with the colored aggregates were placed at the riser face to insure density uniformity. At horizontal locations where board-form was called for, premade wood forms were used to stamp the impression into the surface, and these in turned aligned with the vertical board form pattern of the structural wall pours.

Precast concrete was used to replicate existing elements of the original museum. The desired finish involved was a delicate surface of fine-grain sand similar to a carved stone finish. "Our precaster would have no issue recreating this for decorative elements, but we needed this material and finish in large structural members such as beams and round Greek-looking columns 30 feet tall," Boehle recalls. The precaster developed a molding procedure that allowed them to cast the round columns while minimizing joint or seam lines. A light sandblast on the surface gave them the desired finish.

Finally, some elements of the project lent themselves to using shotcrete. For certain nonstructural walls that needed an exposed aggregate finish, the contractors sprayed the wall form with a shotcrete mix packed with decorative aggregate. The aggregates were then exposed using retarders and water-and-acid washes. "Like with everything else," says Boehle, "many months of trials were needed for all casting methods to get the right recipes."

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### Mortar conversion kit from Waltools

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allows for build-outs of up to 4 inches with the appropriate scratch coat, and its extended set time provides significant carving time for full-detail effects. It dries to a realistic buff gray and can be used with Waltools Tru Tint stains.

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Peter Wagner has been involved in the concrete polishing industry since 2000. Former business owner, corporate trainer and marketing director, and originator of the "Polished Perspectives" column. Provides SERVICES TO OWNERS & CONTRACTORS, including marketing/training manuals; writing articles & project photography; formulating & implementing maintenance solutions; and writing for AIA/websites.



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The leading manufacturer of premium architectural and specialty decorative concrete solutions. Our superior systems have been proven since 1989 by industry professionals and property owners to restore and enhance the image of concrete. Your complete source for Concrete Color Stains, NanoSet Polishing System, preparation products, sealers, sundries and more!

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chemical solutions to concrete problems

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1444 S. 20th St.  
Omaha, NE 68108  
p: (800) 669-2738 f: (402) 341-9752  
www.nox-crete.com  
customerservice@nox-crete.com

Nox-Crete manufactures a full line of decorative clear sealers, pigmented sealer/stains, water-repellent sealers and curing compounds. Nox-Crete's Blast-Off concrete remover safely cleans concrete tools and equipment without harming the user, the equipment or the environment. Our chemistry adds science to the art of decorative concrete for beautiful, long-lasting results.

**Nufinish Corporation**  
P.O. Box 141, Stn. A  
Etobicoke, ON M9C 4V3 Canada  
p: (866) 550-7933 f: (416) 626-8941  
www.nufinish.ca  
info@nufinish.ca

Nufinish specializes exclusively in diamond tools for the concrete grinding and polishing industry.

## O

**Olde World Stone & Tile Molds**  
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Stes. G & H  
Port Charlotte, FL 33954

p: (941) 244-3875 f: (941) 624-5356  
www.themoldstore.com  
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Manufacturing and Marketing of Concrete Molds since 1992. Make manufactured stone veneer, cement tiles, pavers, brick veneer, stepping stones and more for pennies each. Make stone and tile for 10% of regular retail pricing. Product Catalogue website at www.TheMoldStore.com and eStore Shopping Cart website at www.TheMoldStore.us

## P

**Pace Associates Int'l Inc.**  
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paceassociintl@gmail.com

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p: (949) 581-0270 f: (949) 581-0271  
www.pacificconcreteimages.com  
info@pacificconcreteimages.com

**Padco Inc.**  
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Minneapolis, MN 55414  
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www.performancepolymersllc.com  
info@concreteoverlaypolymer.com  
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**Pivotal Coating Technologies Inc.**  
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Anaheim, CA 92806  
p: (714) 632-1298 f: (714) 632-1298  
www.pivotaluv.com  
info@pivotaluv.com



**PreiTech**  
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www.preitech.com  
preitech@aol.com





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tyler@prolinestamps.com

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www.prospec.com  
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www.puretexture.com  
info@puretexture.com

## Q

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Anaheim, CA 92801  
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www.questbuilding.com  
brittany@questbuilding.com

## R

Radians  
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Bartlett, TN 38134  
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www.radians.com  
sales@radians.com



RBI Wholesale Inc.  
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info@rdtusa.com

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sales@sasecompany.com



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www.shepherdcolor.com  
salesusa@shepherdcolor.com

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www.skimstone.com  
info@skimstone.com  
See our ads on page 33 & 86 •  
Reader Service 28 & 97



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www.slipindustries.com  
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Something Better Company LLC  
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Phoenix, AZ 85032

p: (800) 324-1719 f: (602) 923-7169  
www.betterpaths.com  
tammi@betterpaths.com

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Reader Service 12 & 80







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**Spin Screed Inc.**  
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Quincy, IL 62301

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info@spinscreed.com

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**SRI Concrete Products**  
2515 Commerce Dr.  
Rock Hill, SC 29730

p: (803) 327-6880 f: (803) 327-3872  
www.sriconcrete.com  
robellis@senturyreagents.com



**SS Specialties**  
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Oklahoma City, OK 73105

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www.thestampstore.com  
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SS Specialties has an entire collection of professional decorative concrete products, including sealers, coatings, stains, strippers, overlays, vertical mix, and preparation. Proven, award-winning products, designed and tested by contractors.

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www.thestampstore.com  
info@thestampstore.com

The Stamp Store is the ultimate resource for quality decorative concrete products, with the largest Internet catalog of products in the industry. The Stamp Store features SS Specialties and a complete line of industry products. We specialize in training and online technical support. We ship worldwide.

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www.stardek.com  
info@stardek.com



**Super Stone Inc.**  
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Opa Locka, FL 33054

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www.superstone.com  
superstone@superstone.com

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**Super-Krete Products**  
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p: (800) 995-1716 f: (619) 401-8288  
www.super-krete.com  
sales@super-krete.com

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p: (800) 987-8403 f: (706) 658-0357  
www.superabrasive.com  
info@superabrasive.us



**SureCrete Design**  
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Dade City, FL 33523

p: (800) 544-8488 f: (352) 567-6545  
www.surecretedesign.com  
whatsnew@surecretedesign.com

SureCrete is a manufacturer of Decorative Concrete and Concrete Restoration supplies such as: self bonding overlays, stamp overlays, sealers, and stains. We are home to the Xtreme Series hybrid GFRG materials. Our "GREEN" concrete products help you apply eco-friendly surface solutions for: floors, walls, ceilings and countertops!

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www.surfcoat.com  
surfcoat@gmail.com

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**Surface519**  
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www.surface519.com  
bob@surface519.com

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moneil@surtecssystem.com

**Sustainable Paving Systems LLC**  
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info@sustainablepavingsystems.com

**T**

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Cheshire, CT 06410

p: (203) 915-0279 f: (203) 272-8202  
www.laticretetollmfg.com  
djicenzo@cox.net

**Traction Auditing**  
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p: (817) 230-4004 f: (817) 410-7787  
www.tractionauditing.com  
brent.johnson@tractionauditing.com

**Traction Plus**  
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Southlake, TX 76092

p: (817) 705-2230 f: (817) 410-7787  
www.tractionplus.com  
info@tractionplus.com

**Tramex c/o Black Hawk Sales Inc.**  
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Littleton, CO 80127

p: (303) 972-7926 f: (303) 972-7106  
www.tramexltd.com  
sales@tramexltd.com

**Trimaco**  
2300 Gateway Centre Blvd.,  
Ste. 200  
Morrisville, NC 27560

p: (314) 534-5005 f: (314) 531-1723  
www.trimaco.com  
customerservice@trimaco.com

**Triple-S Chemical Products Inc.**  
3464 Union Pacific Ave.  
Los Angeles, CA 90023

p: (800) 862-5958 f: (323) 261-5567  
www.concrete-stains.com  
info@ssschemical.com

Triple-S Chemicals is a Los Angeles-based manufacturer of Concrete Acid Stains, and we also sell several types of sealers. We have recently also added an acrylic stain system to our line for a more green alternative.



## U

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www.universaltemplates.com  
template@tds.net

US Saws Inc.  
11 High St.  
Suffield, CT 06078  
p: (877) 817-6687 f: (860) 668-2404  
www.ussaws.com  
sales@ussaws.com

UV III Systems Inc.  
59 Cedarvale Estates  
Alburgh, VT 05440  
p: (508) 883-4881  
www.uv3.com  
gordon@uv3.com

## V



**Vexcon Chemical**  
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**Philadelphia, PA 19135**  
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www.vexcon.com  
sales@vexcon.com

**Virginia Abrasives**  
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**Petersburg, VA 23805**  
p: (800) 996-7263 f: (800) 422-5336  
www.virginiaabrasives.com  
sales@virginiaabrasives.com  
See our ad on page 61 • Reader Service 60

## W

Wagman Metal Products Inc.  
400 S. Albemarle St.  
York, PA 17403  
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www.wagmanmetal.com  
email@wagmanmetal.com



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www.werkmaster.com  
info@werkmaster.com

WerkMaster pioneered dry polishing systems for concrete, terrazzo, stone and sandpaperless hardwood refinishing using our patented Octi-Disc Technology and ULTRA FLEX Plug 'N Go tooling system. Viper: 7 machines in 1: Grinder, Polisher, Edger, Sander, Buffer, Burnisher and Stripper; edges to 1/8" of the wall. ULTRA Guard is CFIA approved.

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**770 Gateway Center Dr.**  
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www.westcoat.com  
info@westcoat.com

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Reader Service 31, 83 & 94

The Wooster Brush Company  
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P.O. Box 6010  
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www.woosterbrush.com  
customerservice@woosterbrush.com  
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## X

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www.v8coatings.com  
mmitus@xtremefloorsystems.com  
See our ad on page 65 • Reader Service 62



**Xtreme Polishing Systems**  
**2150 S.W. 10th St.**  
**Deerfield Beach, FL 33442**  
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## A

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**EZChem Inc.**  
 Larsen Products Corp.  
**Surface519**

**Adhesives — Epoxy**

**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
**Performance Polymers LLC**  
**The Stamp Store** S  
**Super Stone Inc.**  
 TOTAL Marketing LLC

**Adhesives**

**Decorative Concrete Supply Inc.** S

**Adhesives — Polymer**

Bayer MaterialScience LLC  
**Decorative Concrete Supply Inc.** S  
**Performance Polymers LLC**  
**SS Specialties**  
**The Stamp Store** S  
**Super Stone Inc.**  
 Super-Krete Products

**Admixtures — Accelerator, Chloride**

**Concrete Earth LLC**

**Admixtures — Accelerator, Nonchloride**

**Concrete Earth LLC**

**Admixtures — Air-entraining**

**Concrete Earth LLC**

**Admixtures — Countertops**

CHENG Concrete  
**Concrete Countertop Specialties**  
 Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
 Something Better Company LLC  
**The Stamp Store** S  
**Super Stone Inc.**  
**Surface519**

**Admixtures — Integral Color (see Pigment)****Admixtures — Polymer**

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**Concrete Earth LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
 Helix Color Systems  
 Something Better Company LLC  
**Super Stone Inc.**

**Admixtures — Retarding**

**Concrete Earth LLC**  
**Super Stone Inc.**

**Admixtures — Super-plasticizers**

Ball Consulting Ltd.  
**Concrete Countertop Specialties**  
**Concrete Earth LLC**  
 Something Better Company LLC  
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**Admixtures — Water-reducing**

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**Concrete Earth LLC**  
**L.M. Scofield**  
**Surface519**

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**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
 Heritage Glass Inc.  
**Surface519**  
 Xtreme Polishing Systems

**Aggregates (see also Color Additives) — Colored Stone**

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**Surface519**

**Aggregates (see also Color Additives) — Photoluminescent Sand**

Ambient Glow Technology  
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**Aggregates (see also Color Additives) — Photoluminescent Stone**

Ambient Glow Technology  
**Kingdom Products**  
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**Angle Grinders — General (see also Grinders)**

Alpha Professional Tools  
**Decorative Concrete Supply Inc.** S  
 SASE Company Inc.  
**Surface519**  
 Xtreme Polishing Systems

**Antiquing Agents — General (see also Color or Sealers)**

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**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
**EZChem Inc.**  
 Proline Decorative Concrete Systems  
**The Stamp Store** S  
**Super Stone Inc.**

**Apparel (see Clothing)****Applicators — Brushes**

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**Decorative Concrete Supply Inc.** S  
**Midwest Rake**  
 Riviera Brush Co.  
 Wooster Brush Company, The

**Applicators — Gauge Rakes**

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**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
 HoverTrowel Inc.  
 Kraft Tool Company  
**Midwest Rake**

**Applicators — Machines, Pressurized**

Aztec Products Inc.

**Applicators — Mops**

**Decorative Concrete Supply Inc.** S

**Applicators — Pads**

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 Padco Inc.  
 Xtreme Polishing Systems

**Applicators — Ribbed Rollers**

**Midwest Rake**

**Applicators — Roller Covers (nonshedding)**

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**Decorative Concrete Supply Inc.** S  
**Midwest Rake**  
 Wooster Brush Company, The

**Applicators — Roller Frames**

**All in Concrete LLC**  
**Decorative Concrete Supply Inc.** S  
**Midwest Rake**

**Applicators — Roller Trays**

**Decorative Concrete Supply Inc.** S

**Applicators — Smoothers/Spreaders**

**All in Concrete LLC**  
 HoverTrowel Inc.  
**Midwest Rake**  
 Padco Inc.  
 Slip Industries Inc.

**Applicators — Sponges (natural)**

**Decorative Concrete Supply Inc.** S

**Applicators — Squeegees/Blades**

**All in Concrete LLC**  
**Decorative Concrete Supply Inc.** S  
 HoverTrowel Inc.  
**Midwest Rake**

**Artificial Rocks (see Rock-making Materials or Vertical Overlays)**

## B

**Bonding Adhesives/Primers — Epoxy**

**Concrete Countertop Specialties**  
**The Stamp Store** S  
**Westcoat**

**Bonding Adhesives/Primers — Latex**

Larsen Products Corp.  
 TOTAL Marketing LLC  
**Westcoat**

**Bonding Adhesives/Primers — Polymer-modified**

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 Ball Consulting Ltd.  
 Chem Link Products LLC  
**The Stamp Store** S  
 TOTAL Marketing LLC  
**Westcoat**

**Brooms/Brushes — Concrete Texturing**

Kraft Tool Company  
 Riviera Brush Co.

**Business Opportunities — General (see also Franchises)**

Bomanite Co.  
**The Concrete Show** S  
**Engrave-A-Crete**  
 STARDEK Decorative Concrete Products  
 UV III Systems Inc.  
 Xtreme Polishing Systems

## C

**Caulking — Flexible**

**Decorative Concrete Supply Inc.** S  
**Westcoat**  
 Xtreme Polishing Systems

**Caulking — Tintable**

Metzger/McGuire  
 Xtreme Polishing Systems

**Caulking — Waterproofing**

**Westcoat**  
 Xtreme Polishing Systems



**Cement — Grey**

Ball Consulting Ltd.  
EZChem Inc.

**Cement — Mortar**

TOTAL Marketing LLC

**Cement — Pozzolans**

Heritage Glass Inc.  
Surface519

**Cement — Specialty**

Ball Consulting Ltd.  
Lehigh White Cement  
Something Better Company LLC  
Surface519  
Westcoat

**Cement — White**

Ball Consulting Ltd.  
EZChem Inc.  
Lehigh White Cement

**Cleaning Equipment — Abrasive**

M3Technologies Inc.  
WerkMaster

**Cleaning Equipment — Pressure Washers**

Aqua Blast Corp.

**Cleaning Equipment — Scrubbers**

Aztec Products Inc.  
Wagman Metal Products Inc.  
Xtreme Polishing Systems

**Cleaning Equipment — Vacuums (see Vacuums)****Cleaning Solutions — Cleaners/Degreasers**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Engrave-A-Crete  
EZChem Inc.  
Franmar Chemical  
H&C Decorative Concrete Products  
Infinicrete S  
Kemiko Decorative & Industrial Coatings  
RBI Wholesale Inc.  
Super-Krete Products  
Surface Gel Tek LLC  
Surtec Inc.  
Traction Plus  
Trimaco  
WerkMaster

**Cleaning Solutions — Concrete Dissolvers**

All in Concrete LLC  
Concrete Earth LLC  
EZChem Inc.  
Nox-Crete Products Group  
Surface Gel Tek LLC  
WerkMaster

**Cleaning Solutions — Efflorescence Removers**

All in Concrete LLC  
Concrete Earth LLC  
Concrete Mosaics Inc.  
RBI Wholesale Inc.  
Surface Gel Tek LLC

**Cleaning Solutions — Floor Cleaner/Safety Treatment**

Concrete Flooring Solutions  
Franmar Chemical  
M3Technologies Inc.  
Surface Gel Tek LLC  
Surtec Inc.  
Traction Auditing  
Traction Plus

**Cleaning Solutions — Mold/Mildew Removers**

Franmar Chemical  
Surface Gel Tek LLC  
Trimaco

**Cleaning Solutions — Oil/Stain Removers**

All in Concrete LLC  
Concrete Earth LLC  
Concrete Mosaics Inc.  
Decorative Concrete Supply Inc. S  
EZChem Inc.  
Surface Gel Tek LLC  
Trimaco  
Vexcon Chemical  
WerkMaster

**Cleaning Solutions — Rust, Remediation**

Concrete Earth LLC  
Surface Gel Tek LLC

**Cleaning Solutions — Surface Prep**

All in Concrete LLC  
Concrete Earth LLC  
Diamatic USA  
EZChem Inc.  
Franmar Chemical  
SS Specialties  
Surface Gel Tek LLC  
Trimaco

**Clothing — Gloves**

Midwest Rake  
Radians  
Trimaco

**Clothing — Gloves (disposable)**

Decorative Concrete Supply Inc. S

**Clothing — Protective Suits (disposable)**

Trimaco

**Clothing — Shoes/Rubber Boots**

Midwest Rake

**Coatings (see also Sealers) — 100% Solids Polyester UV**

cureUV.com S  
Kemiko Decorative & Industrial Coatings

**Coatings (see also Sealers) — Acrylic Concrete Paint**

All in Concrete LLC  
Color Wheel Paint  
Concrete Solutions (Div. of Rhino Linings Corp.)  
EZChem Inc.  
Frazee Paint  
Kwal Paint  
STARDEK Decorative Concrete Products  
Surface519  
Vexcon Chemical  
Westcoat

**Coatings (see also Sealers) — Antigrffiti**

All in Concrete LLC  
Bayer MaterialScience LLC  
Concrete Earth LLC  
FLEXMAR Coatings  
Quest Building Products  
Surface519  
Vexcon Chemical

**Coatings (see also Sealers) — Colored Quartz**

Elite Crete Systems  
Miracote by Crossfield Products Corp.  
Quest Building Products  
Westcoat

**Coatings (see also Sealers) — Epoxy**

aiflooring  
Arizona Polymer Flooring  
Concrete Earth LLC  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Contractor Source S  
Decorative Concrete Supply Inc. S  
Elite Crete Midsouth  
Elite Crete Systems  
Engrave-A-Crete  
Kemiko Decorative & Industrial Coatings  
Kingdom Products  
Miracote by Crossfield Products Corp.  
Quest Building Products  
SS Specialties  
The Stamp Store S  
Super Stone Inc.  
Surface519  
Vexcon Chemical  
Westcoat  
Xtreme Engineered Floor Systems

**Coatings (see also Sealers) — Liquid Metal (see also Metallic Powder)**

Arizona Polymer Flooring  
Elite Crete Systems  
Engrave-A-Crete  
Surface519  
Westcoat

**Coatings (see also Sealers) — Mineral (inorganic)**

Aquafin Inc.

**Coatings (see also Sealers) — Mobile UV Curing Equipment**

HID Ultraviolet

**Coatings (see also Sealers) — Photoluminescent**

Super-Krete Products



**Coatings (see also Sealers) — Polyaspartics**

Advantage Chemical Coatings  
aiflooring

**Arizona Polymer Flooring**

Bayer MaterialScience LLC  
Citadel Polyurea Coatings  
**Concrete Solutions (Div. of Rhino Linings Corp.)**

**Contractor Source**

Elite Crete Systems

**Engrave-A-Crete**

EZChem Inc.

**Kemiko Decorative & Industrial Coatings**

**Performance Polymers LLC**

Quest Building Products

**SS Specialties**

**The Stamp Store**

**Surface519**

**Coatings (see also Sealers) — Rubberized/Nonskid**

STARDEK Decorative Concrete Products

**Coatings (see also Sealers) — Special Effects**

Ambient Glow Technology

**Elite Crete Systems**

FLEXMAR Coatings

**Miracote by Crossfield Products Corp.**

**The Stamp Store**

**Coefficient of Friction Testing (see Friction/Traction Testing)****Color Additives — Mica Flakes**

Pace Associates Int'l Inc.

**Color Additives — Reflective Granules (see also Pigment or Antiquing Agents)**

Elite Crete Systems

**Color Dispensers/Blenders — Ready-mix**

**Butterfield Color**

Davis Colors

**L.M. Scofield**

**Color Dispensers/Blenders — Table Type**

Davis Colors

**Color Hardeners/ Dry Shake Colors**

Brickform (Div. of Solomon Colors Inc.)

**Butterfield Color****Concrete Earth LLC**

Concrete Mosaics Inc.

**Contractor Source**

**Decorative Concrete Supply Inc.**

EZChem Inc.

**H&C Decorative Concrete Products**

Helix Color Systems

**Innotech Decorative Concrete Products**

**Kingdom Products**

Proline Decorative Concrete Systems

**L.M. Scofield****The Stamp Store**

**Super Stone Inc.**

**Color Release Agents — Dry**

**Butterfield Color**

**Concrete Earth LLC**

Concrete Mosaics Inc.

**Contractor Source**

**Decorative Concrete Supply Inc.**

EZChem Inc.

**H&C Decorative Concrete Products**

Helix Color Systems

**Innotech Decorative Concrete Products**

**Kingdom Products**

Kraft Tool Company

Legacy DCS (Div. of Solomon Colors Inc.)

Proline Decorative Concrete Systems

**The Stamp Store**

**Super Stone Inc.**

**Color Release Agents — Liquid (see also Liquid Release)**

**All in Concrete LLC**

**Concrete Earth LLC**

**Concrete Solutions (Div. of Rhino Linings Corp.)**

**Decorative Concrete Supply Inc.**

Elite Crete Systems

EZChem Inc.

**Innotech Decorative Concrete Products**

**Kingdom Products**

Proline Decorative Concrete Systems

**The Stamp Store**

**Super Stone Inc.**

**Color Release Agents — Liquid Concentrate**

Proline Decorative Concrete Systems

**Color Restoration Coatings — General (see also Epoxy)**

**All in Concrete LLC**

**Concrete Earth LLC**

**Decorative Concrete Supply Inc.**

Elite Crete Systems

Super-Krete Products

**Surface519**

**Concrete Coloring (see Pigments)****Concrete Countertops — Additives**

**All in Concrete LLC**

Buddy Rhodes Concrete Products

CHENG Concrete

**Concrete Countertop Specialties**

**enCOUNTER**

**The Stamp Store**

**Surface519**

**Westcoat**

**Concrete Countertops — Admixtures**

**All in Concrete LLC**

Ball Consulting Ltd.

CHENG Concrete

**Concrete Countertop Specialties**

Countertop Solutions / Ashby System

Delta Performance Products LLC

**Elite Crete Systems**

Fishstone /

ConcreteCountertopSupply.com

Something Better Company LLC

**The Stamp Store**

**Surface519**

**Westcoat**

**Concrete Countertops — Aggregate**

Ambient Glow Technology

**American Specialty Glass**

CHENG Concrete

**Concrete Countertop Specialties**

**Decorative Concrete Supply Inc.**

Heritage Glass Inc.

**Surface519**

**Xtreme Polishing Systems**

**Concrete Countertops — Coatings**

cureUV.com

**Decorative Concrete Supply Inc.**

Elite Crete Systems

FLEXMAR Coatings

**Kemiko Decorative & Industrial Coatings**

**The Stamp Store**

**Surface519**

**WerkMaster**

**Westcoat**

**Concrete Countertops — Designs**

CHENG Concrete

Federal Brace

**Modello Designs**

**Surface519**

**Concrete Countertops — Edge Forms (textured)**

**All in Concrete LLC**

**Contractor Source**

Countertop Solutions / Ashby System

**Decorative Concrete Supply Inc.**

**enCOUNTER**

Infinicrete

Proline Decorative Concrete Systems

Something Better Company LLC

**The Stamp Store**

**Surface519**

**Concrete Countertops — Embossing Liners**

**Decorative Concrete Supply Inc.**

**Surface519**

**Concrete Countertops — Fabrication**

Alpha Professional Tools

Buddy Rhodes Concrete Products

**Surface519**

**Concrete Countertops — Forms**

Buddy Rhodes Concrete Products

CHENG Concrete

Countertop Solutions / Ashby System

**enCOUNTER**

**The Stamp Store**

**Surface519**

**Concrete Countertops — Instructional Products (Books & DVD)**

Buddy Rhodes Concrete Products

CHENG Concrete

The Concrete Countertop Institute

**enCOUNTER**

**The Stamp Store**

**Surface519**

**Concrete Countertops — Mechanical Finishing Trowels**

**Surface519**

**Concrete Countertops — Mica Flakes**

Pace Associates Int'l Inc.

Something Better Company LLC



**Concrete Countertops — Mixtures**

**Braxton-Bragg**  
**Butterfield Color**  
**Concrete Earth LLC**  
**Contractor Source** S  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
 Envision Concrete Countertop Products  
**EZChem Inc.**  
**Kingdom Products**  
 Something Better Company LLC  
**SureCrete Design**  
**Surface519**

**Concrete Countertops — Multiple Color Systems**

**All in Concrete LLC**  
 Buddy Rhodes Concrete Products  
 CHENG Concrete  
**Concrete Earth LLC**  
**enCOUNTER**  
**Kingdom Products**  
**The Stamp Store** S  
**Surface519**

**Concrete Countertops — Reinforcement**

Ball Consulting Ltd.  
 Buddy Rhodes Concrete Products  
 CHENG Concrete  
**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
 Federal Brace  
 SpiderLath  
**Surface519**

**Concrete Countertops — Resurfacing**

**Elite Crete Systems**  
**enCOUNTER**  
 Something Better Company LLC  
**The Stamp Store** S  
**Surface519**  
**WerkMaster**  
**Westcoat**

**Concrete Countertops — Sealers (see also Sealers)**

**All in Concrete LLC**  
 Buddy Rhodes Concrete Products  
 CHENG Concrete  
**Concrete Earth LLC**  
 Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
 Envision Concrete Countertop Products  
**EZChem Inc.**  
 FLEXMAR Coatings  
 Infinicrete S  
**Kemiko Decorative & Industrial Coatings**  
 Lythic Solutions  
**Miracote by Crossfield Products Corp.**  
 Pivotal Coating Technologies Inc.  
 Something Better Company LLC  
**The Stamp Store** S  
**Surface519**  
**WerkMaster**  
**Westcoat**

**Concrete Countertops — Sink Molds**

Buddy Rhodes Concrete Products  
 Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
 Infinicrete S  
 Something Better Company LLC  
**Surface519**

**Concrete Countertops — Stains**

**All in Concrete LLC**  
**Concrete Earth LLC**  
 Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
**EZChem Inc.**  
 FLEXMAR Coatings  
**Kemiko Decorative & Industrial Coatings**  
 L & M Industries LLC  
 Something Better Company LLC  
**The Stamp Store** S  
**Surface519**  
 Xtreme Polishing Systems

**Concrete Countertops — Tables, Fabricating**

**Decorative Concrete Supply Inc.** S  
**Surface519**

**Concrete Countertops — Tables, Vibrating**

**Surface519**

**Concrete Countertops — Training**

**All in Concrete LLC**  
**Braxton-Bragg**  
 Buddy Rhodes Concrete Products  
 CHENG Concrete  
 Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
 Fishstone /  
 ConcreteCountertopSupply.com S  
 Infinicrete S  
 Something Better Company LLC  
**The Stamp Store** S  
**SureCrete Design**  
**Surface519**

**Concrete Countertops — Transport Carts**

**Surface519**

**Concrete Countertops — Waxes**

Buddy Rhodes Concrete Products  
 CHENG Concrete  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
**Surface519**

**Concrete Curbing — Colorant (see also Pigment or Stains)**

Chaotic Pigments  
 Davis Colors  
**Decorative Concrete Supply Inc.** S  
**Super Stone Inc.**

**Concrete Curbing — Forms**

Metal Forms Corporation

**Concrete Curbing — Stamps/Textures**

**Decorative Concrete Supply Inc.** S  
 Proline Decorative Concrete Systems  
 STARDEK Decorative Concrete Products  
**Super Stone Inc.**

**Concrete Curbing Colorant (see Pigment or Stains)****Concrete Finishing Aids**

**All in Concrete LLC**

**Concrete Mixers (see Mixers, Concrete)****Concrete Mixes — Bag**

**Concrete Earth LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
 Infinicrete S  
**Performance Polymers LLC**

**Concrete Mixes — Bag (Countertops)**

Ball Consulting Ltd.  
 Buddy Rhodes Concrete Products  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
 Infinicrete S  
**Kingdom Products**  
 MAXIMIZER Concrete  
 Something Better Company LLC  
**SS Specialties**  
**The Stamp Store** S  
**Surface519**

**Concrete Mixes — Lightweight**

**Decorative Concrete Supply Inc.** S  
 MAXIMIZER Concrete  
 Something Better Company LLC

**Concrete Mixes — Self-consolidating**

**Decorative Concrete Supply Inc.** S

**Concrete Mixes — Self-leveling**

**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
 Quest Building Products  
 Xtreme Polishing Systems

**Concrete Molds — Balustrades**

Armcon Molds USA

**Concrete Molds — Fencing**

Armcon Molds USA

**Concrete Molds — Furniture**

Armcon Molds USA  
**Decorative Concrete Supply Inc.** S  
**Surface519**

**Concrete Molds — Mantels**

**Surface519**

**Concrete Molds — Pavers**

Armcon Molds USA

**Concrete Molds — Planters**

**Decorative Concrete Supply Inc.** S  
**Surface519**

**Concrete Molds — Sinks, Drains, Faucet Knockouts**

**All in Concrete LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
 PreiTech  
**SureCrete Design**  
**Surface519**



**Concrete Molds —  
Stone Veneers**

Armcon Molds USA  
Olde World Stone & Tile Molds

**Concrete Molds — Tile**

Olde World Stone & Tile Molds  
PreiTech  
**Surface519**

**Concrete Molds — Walls  
(see also Forms)**

Armcon Molds USA  
**Decorative Concrete Supply Inc.** S  
Something Better Company LLC

**Concrete Placers**

**Lura Enterprises**  
**Midwest Rake**

**Concrete Resurfacing (see  
Overlays or Underlayments)****Consolidation Tools (see  
Vibratory Equipment)****Consultants — Decorative  
Concrete**

CHENG Concrete  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Elite Crete Systems**  
**enCOUNTER**  
Something Better Company LLC

**Consultants — On-Site Training**

CHENG Concrete  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
Elite Crete South  
**Elite Crete Systems**  
**enCOUNTER**  
Something Better Company LLC

**Consultants —  
Polished Concrete**

Concrete Flooring Solutions

**Consultants — Training**

CHENG Concrete  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
**Engrave-A-Crete**  
**EZChem Inc.**  
Something Better Company LLC  
**SS Specialties**  
**The Stamp Store** S  
**Surface Gel Tek LLC**

**Control Joint Systems —  
Sealants (see also Joint Fillers  
& Sealants)**

Citadel Polyurea Coatings  
**Decorative Concrete Supply Inc.** S  
Metzger/McGuire  
**The Stamp Store** S

**Crack Repair — Fillers**

**All in Concrete LLC**  
Citadel Polyurea Coatings  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of  
Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
Metzger/McGuire  
**Miracote by Crossfield Products Corp.**  
**The Stamp Store** S  
**Vexcon Chemical**  
**WerkMaster**  
**Westcoat**  
**Xtreme Polishing Systems**

**Crack Repair —  
Injection Resins**

**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
Metzger/McGuire  
**The Stamp Store** S  
**Westcoat**  
**Xtreme Polishing Systems**

**Crack-Chasing Saws —  
Hand-held**

Alpha Professional Tools  
**Decorative Concrete Supply Inc.** S

**Curing Compounds**

**All in Concrete LLC**  
**Concrete Earth LLC**  
W.R. Meadows Inc.

**D****Densifier**

**All in Concrete LLC**  
Aztec Products Inc.  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**EZChem Inc.**  
**H&C Decorative Concrete Products**  
Lythic Solutions  
**NewLook International Inc.**  
Quest Building Products  
**L.M. Scofield**  
**The Stamp Store** S  
**Surface519**  
Surtec Inc.  
**Vexcon Chemical**  
**WerkMaster**  
**Xtreme Polishing Systems**

**Drills — Core/Tile**

Alpha Professional Tools  
**CS Unitec Inc.**  
Reliable Diamond Tool Inc.

**Drills — Hammer Type**

**CS Unitec Inc.**

**Dry Shake  
(see Color Hardeners)****Dust Containment/Control  
— General (see also Vacuums)**

Alpha Professional Tools  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
Dust Collection Products  
Ermator LLC  
Quest Building Products  
SASE Company Inc.  
**Xtreme Polishing Systems**

**E****Education/Training Services  
(see Training Videos)****Engraving**

Alpha Professional Tools  
**Engrave-A-Crete**

**Engraving Tools —  
Circle Engraving Tool**

**Engrave-A-Crete**

**Engraving Tools**

**Engrave-A-Crete**

**Engraving Tools —  
Needle Scalars**

**Engrave-A-Crete**

**Epoxy — Acrylic Urethane**

**Arizona Polymer Flooring**  
**Concrete Solutions (Div. of  
Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
**SS Specialties**  
**The Stamp Store** S  
**Westcoat**

**Epoxy — Aggregate**

Ambient Glow Technology  
**Elite Crete Systems**  
Heritage Glass Inc.  
**Kingdom Products**  
**Westcoat**

**Epoxy — Aliphatic Acrylic**

**Concrete Earth LLC**  
**Kemiko Decorative & Industrial  
Coatings**  
**Kingdom Products**  
**Miracote by Crossfield Products Corp.**  
STARDEK Decorative Concrete Products  
**Westcoat**

**Epoxy — Cycloaliphatic  
Coatings**

**Arizona Polymer Flooring**  
**Elite Crete Systems**  
**Kingdom Products**

**Epoxy — Liquid Thickeners**

**Westcoat**

**Epoxy — Moisture Barriers**

Aquafin Inc.  
**Arizona Polymer Flooring**  
**Elite Crete Systems**  
**Westcoat**

**Epoxy — Polyamide Coatings**

**Elite Crete Systems**  
**Kemiko Decorative & Industrial  
Coatings**  
**Miracote by Crossfield Products Corp.**  
**Westcoat**

**Epoxy (Base) — Acrylic**

**Decorative Concrete Supply Inc.** S  
**Kemiko Decorative & Industrial  
Coatings**  
**Surface519**  
**Westcoat**

**Epoxy (Base) — Custom Tints**

**Concrete Earth LLC**  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**Surface519**  
**Westcoat**

**Epoxy (Base) —  
Metallic Coatings**

**Decorative Concrete Supply Inc.** S  
Elite Crete of the Ohio Valley  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**Surface519**  
**Westcoat**

**Epoxy (Base) — Opaque  
Coatings (One-part)**

**Arizona Polymer Flooring**



**Epoxy (Base) — Opaque Coatings (Two-part)**

Arizona Polymer Flooring  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Engrave-A-Crete  
H&C Decorative Concrete Products  
Miracote by Crossfield Products Corp.  
Vexcon Chemical  
Westcoat

**Epoxy (Base) — Pastes & Gels**

Westcoat

**Epoxy (Base) — Polyurea**

Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Kemiko Decorative & Industrial Coatings  
Metzger/McGuire  
Westcoat  
Xtreme Polishing Systems

**Epoxy (Base) — Polyurethane**

Arizona Polymer Flooring  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Kemiko Decorative & Industrial Coatings  
Surface519  
Vexcon Chemical  
Westcoat

**Epoxy (Base) — Vinyl Flake Systems**

Arizona Polymer Flooring  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Miracote by Crossfield Products Corp.  
Westcoat

**Epoxy/Polyurea Spatter Systems**

Decorative Concrete Supply Inc. S

**Etching Solutions — Gels**

Decorative Concrete Supply Inc. S  
Engrave-A-Crete  
Surface Gel Tek LLC

**Etching Solutions — Liquids**

All in Concrete LLC  
Engrave-A-Crete  
H&C Decorative Concrete Products

**Expansion Joints — Fillers**

Xtreme Polishing Systems

**Eye Protection — Glasses/Face Shields**

Radians

**F****Faux Finishing Tools — General (see also Applicators or Trowels)**

Decorative Concrete Supply Inc. S  
SP Systems LLC

**Float Pans (see Power Trowels)****Floats — Border, Raised Edge**

Decorative Concrete Supply Inc. S  
Midwest Rake

**Floats — Extension Poles**

Decorative Concrete Supply Inc. S

**Floats — Magnesium**

Decorative Concrete Supply Inc. S  
Kraft Tool Company

**Floor Coatings (see Epoxy or Overlays)****Floor Hardener (see Densifier)****Floor Machines — Buffers**

All in Concrete LLC  
Aztec Products Inc.  
Decorative Concrete Supply Inc. S  
Diamatic USA  
HoverTrowel Inc.  
Xtreme Polishing Systems

**Floor Machines — Planetary Buffers**

Decorative Concrete Supply Inc. S  
Diamatic USA  
Nufinish Corporation  
WerkMaster  
Xtreme Polishing Systems

**Floor Machines — Planetary Scrubbers**

Decorative Concrete Supply Inc. S  
Diamatic USA  
Xtreme Polishing Systems

**Floor Sanders — Planetary (see also Sanding)**

Decorative Concrete Supply Inc. S  
Diamatic USA  
Leitch & Co.  
Nufinish Corporation  
Virginia Abrasives  
Xtreme Polishing Systems

**Floor Strippers — Chemicals (see Strippers)****Floor Strippers — Powered Chisel-type**

National Flooring Equipment

**Form Accessories — Stakes**

Metal Forms Corporation

**Form Release Agents — General (see also Release Agents)**

Armcon Molds USA  
Concrete Earth LLC  
The Stamp Store S

**Forms — Coping (Disposable)**

Decorative Concrete Supply Inc. S  
Pacific Concrete Images

**Forms — Coping (Reusable)**

Armcon Molds USA  
Pacific Concrete Images

**Forms — Countertop**

Infinicrete S  
Proline Decorative Concrete Systems  
Something Better Company LLC  
The Stamp Store S

**Forms — Curbing/Gutters**

Armcon Molds USA  
Metal Forms Corporation

**Forms — Flatwork, Flexible (Plastic)**

Contractor Source S  
Metal Forms Corporation

**Forms — Flatwork, Flexible (Steel)**

Metal Forms Corporation

**Forms — Flatwork, Rigid (Plastic)**

Metal Forms Corporation

**Forms — Flatwork, Rigid (Steel)**

Metal Forms Corporation

**Forms — Precast (see Concrete Molds or Precast)****Forms — Smooth-edge**

Proline Decorative Concrete Systems

**Forms — Step Liners (Smooth)**

Decorative Concrete Supply Inc. S  
Pacific Concrete Images  
Proline Decorative Concrete Systems  
The Stamp Store S

**Forms — Step Liners (textured)**

Butterfield Color  
Proline Decorative Concrete Systems  
The Stamp Store S

**Forms — Steps**

Armcon Molds USA

**Forms — Wall Caps**

Armcon Molds USA  
Pacific Concrete Images  
Proline Decorative Concrete Systems

**Forms — Wall Liners (Textured)**

Armcon Molds USA

**Forms — Wall Panels**

Armcon Molds USA  
Something Better Company LLC

**Franchises, Licensing Agreements**

Bomanite Co.

**Friction/Traction Testing**

Traction Auditing

**G****Garage Floor Coatings — General (see also Epoxy Base or Vinyl Flake Systems)**

Advantage Chemical Coatings  
BOLDStone  
Citadel Polyurea Coatings  
Concrete Coatings Inc.  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Engrave-A-Crete  
FLEXMAR Coatings  
H&C Decorative Concrete Products  
The Stamp Store S  
STARDEK Decorative Concrete Products  
Super-Krete Products  
Westcoat  
Xtreme Engineered Floor Systems

**Gauge Rakes — Adjustable (see Applicators)****Glass Additives (see Aggregates)****Gloves (see Clothing)****Glow in the Dark, Sand/Stone (see Aggregates or Coatings)****Graffiti Removal — Chemical (see also Strippers)**

All in Concrete LLC  
Citadel Polyurea Coatings  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Surface519  
Surtec Inc.



**Grinders — Angle**

Alpha Professional Tools  
**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
 Dust Collection Products  
 Metabo Corporation  
 SASE Company Inc.  
**Xtreme Polishing Systems**

**Grinders — Crack Chasers**

Alpha Professional Tools  
**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
 Dust Collection Products  
**Xtreme Polishing Systems**

**Grinders — Edgers (Hand-held)**

Alpha Professional Tools  
**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
**Leitch & Co.**  
 SASE Company Inc.  
 US Saws Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Grinders — Edgers (Walk-behind)**

Alpha Professional Tools  
 Diamatic USA  
**National Flooring Equipment**  
 Reliable Diamond Tool Inc.  
 SASE Company Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Grinders — Walk-behind (see also Polishers)**

**All in Concrete LLC**  
 Aztec Products Inc.  
**CS Unitec Inc.**  
 Diamatic USA  
 HoverTrowel Inc.  
**National Flooring Equipment**  
 Nufinish Corporation  
 Reliable Diamond Tool Inc.  
 SASE Company Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Grinding Accessories — Pads**

Alpha Professional Tools  
**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
 Nufinish Corporation  
 Reliable Diamond Tool Inc.  
**Xtreme Polishing Systems**

**Grinding Accessories — Wheels, Carbide**

**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
**Xtreme Polishing Systems**

**Grinding Accessories — Wheels, Diamond**

Alpha Professional Tools  
 Aztec Products Inc.  
**Concrete Countertop Specialties**  
 Cutter Diamond Products  
**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
 Diamond Tec  
 Dust Collection Products  
**Leitch & Co.**  
 Reliable Diamond Tool Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Groovers, Concrete — General (see also Control Joints or Trowels)**

**Decorative Concrete Supply Inc.** S  
 Slip Industries Inc.

**Grout — Bags/Dispensers**

**Decorative Concrete Supply Inc.** S

**Grout — Colorant**

**Decorative Concrete Supply Inc.** S

**Grout — Floats**

**Decorative Concrete Supply Inc.** S

**Grout — Polymers**

**Decorative Concrete Supply Inc.** S

**Grout — Saws**

**Decorative Concrete Supply Inc.** S

**Grout — Tape**

**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S

**H****Hopper, Guns (see Sprayers)****I****Integral Color (see Pigments)****Internet Solutions — Online Advertising**

CHENG Concrete  
 Concrete IDEAS  
**The Concrete Show** S

**Internet Solutions — Web Design**

Concrete IDEAS

**Iron Oxide Pigments (see Pigments)****J****Joint Fillers & Sealants — Epoxy**

Ambient Glow Technology  
**Arizona Polymer Flooring**  
 Metzger/McGuire  
**Westcoat**  
**Xtreme Polishing Systems**

**Joint Fillers & Sealants — Injection Resin**

Chem Link Products LLC  
 Metzger/McGuire  
**Westcoat**

**Joint Fillers & Sealants — Mastic**

**Decorative Concrete Supply Inc.** S

**Joint Fillers & Sealants — Polyurea**

CSS Polymers Inc.  
 Metzger/McGuire  
**Xtreme Polishing Systems**

**Joint Fillers & Sealants — Semi-rigid (see also Control Joint Systems)**

Metzger/McGuire  
**Westcoat**

**K****Knee Boards & Kneeler Boards**

Kraft Tool Company

**Knee Pads**

**Decorative Concrete Supply Inc.** S

**L****Lighting — Fiber Optics**

Infinicrete S  
**Surface519**

**Lighting — Rope**

Infinicrete S

**Liquid Release (see Color Release Agents)****M****Masking Equipment — Machines**

Trimaco

**Masking Products — Films**

Trimaco

**Masking Products — Floor Protection**

Trimaco

**Masking Products — Tape**

**Decorative Concrete Supply Inc.** S  
 Trimaco

**Material Handling — Wheelbarrows**

Metal Forms Corporation

**Metakaolin (see Cement)****Metallic Coatings (see also Coatings)**

**Elite Crete Systems**  
 FLEXMAR Coatings  
**Performance Polymers LLC**  
**Westcoat**

**Metallic Powders**

**Elite Crete Systems**

**Mixers, Cement — Batch Type/Wheel-mounted**

Ball Consulting Ltd.  
**CS Unitec Inc.**

**Mixers, Cement — Hand-held (Electric)**

BN Products — USA LLC  
**CS Unitec Inc.**  
**Decorative Concrete Supply Inc.** S  
 Infinicrete S

**Mixers, Concrete — Portable Stand**

**CS Unitec Inc.**

**Mixers, Mortar — Portable Stand**

Ball Consulting Ltd.  
**CS Unitec Inc.**  
 HoverTrowel Inc.

**Mixers, Mortar — Trailer-mounted**

Ball Consulting Ltd.

**Mixing Tools — 15-Gallon Barrels**

Kraft Tool Company  
**Midwest Rake**



**Mixing Tools — Paddles**

CS Unitec Inc.  
Decorative Concrete Supply Inc. S  
Midwest Rake

**Moisture Barriers — Epoxy**

A Gorgeous Floor  
Aquafin Inc.  
Arizona Polymer Flooring  
Elite Crete Systems  
MAPEI Corporation  
Vexcon Chemical  
Westcoat

**Moisture Barriers**

All in Concrete LLC  
Miracote by Crossfield Products Corp.

**Moisture Detection — Meters**

The Stamp Store S  
Tramex c/o Black Hawk Sales Inc.

**Moisture Detection — Testers**

Decorative Concrete Supply Inc. S  
The Stamp Store S

**Moisture Vapor Emission Testers**

Aquafin Inc.

**Mold-making Materials**

Ball Consulting Ltd.  
Silpak Inc.

**Molds (see Concrete Molds)****Mortar — Concrete Repair**

Aquafin Inc.  
Concrete Earth LLC  
CSS Polymers Inc.  
TOTAL Marketing LLC

**N****Needle Scalers — Pneumatic (see also Engraving Tools)**

Dust Collection Products  
Engrave-A-Crete

**O****Overlays — Multiple Faux Finishes**

Aquafin Inc.  
Decorative Concrete Supply Inc. S  
Elite Crete South  
Elite Crete Systems  
EZChem Inc.  
Floor Gear Inc.  
Miracote by Crossfield Products Corp.  
Pure Texture  
SkimStone/Rudd Company  
STARDEK Decorative Concrete Products  
Westcoat

**Overlays — Vertical (see also Vertical Overlays)**

Aquafin Inc.  
Butterfield Color  
Concrete Earth LLC  
Contractor Source S  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
EZChem Inc.  
Miracote by Crossfield Products Corp.  
SS Specialties  
Westcoat

**Overlays — Waterproofing Flexible Stone**

Aquafin Inc.

**Overlays (Polymer) — Microtopping (interior)**

All in Concrete LLC  
Ambient Glow Technology  
BOLDStone  
Concrete Earth LLC  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Decorative Concrete Supply Inc. S  
Diamatic USA  
Elite Crete Systems  
EZChem Inc.  
Innotech Decorative Concrete Products  
Kemiko Decorative & Industrial Coatings  
SS Specialties  
The Stamp Store S  
Super Stone Inc.  
Westcoat

**Overlays (Polymer) — Self-leveling (exterior)**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Diamatic USA  
The Stamp Store S  
Westcoat  
Xtreme Polishing Systems

**Overlays (Polymer) — Self-leveling (interior)**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Diamatic USA  
The Stamp Store S  
Westcoat  
Xtreme Polishing Systems

**Overlays (Polymer) — Terrazzo**

Diamatic USA  
Heritage Glass Inc.

**Overlays (Polymer) — Trowelable**

All in Concrete LLC  
Aquafin Inc.  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Elite Crete of the Ohio Valley  
Elite Crete Systems  
EZChem Inc.  
Westcoat

**Overlays (Polymer) — Wood Substrates**

Aquafin Inc.  
EZChem Inc.  
Westcoat

**Overlays (Polymer-modified) — Countertop Overlays**

Decorative Concrete Supply Inc. S  
Diamatic USA  
Elite Crete Systems  
EZChem Inc.  
Miracote by Crossfield Products Corp.  
Something Better Company LLC  
SS Specialties  
The Stamp Store S  
Super-Krete Products  
Surface519  
Westcoat

**Overlays (Polymer-modified) — Microtopping (Interior)**

All in Concrete LLC  
Ambient Glow Technology  
Arizona Polymer Flooring  
Butterfield Color  
Concrete Coatings Inc.  
Concrete Earth LLC  
Concrete Mosaics Inc.  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Contractor Source S  
A.W. Cook Cement Products  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Engrave-A-Crete  
EZChem Inc.  
Helix Color Systems  
Kemiko Decorative & Industrial Coatings  
Miracote by Crossfield Products Corp.  
Performance Polymers LLC  
SkimStone/Rudd Company  
Something Better Company LLC  
Super-Krete Products  
SureCrete Design  
Westcoat

**Overlays (Polymer-modified) — Patch Overlayment**

Concrete Earth LLC  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Decorative Concrete Supply Inc. S  
Diamatic USA  
Miracote by Crossfield Products Corp.  
Super-Krete Products  
Westcoat

**Overlays (Polymer-modified) — Self-leveling (Exterior)**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Diamatic USA  
Surface519  
Westcoat

**Overlays (Polymer-modified) — Self-leveling (Interior)**

All in Concrete LLC  
Concrete Earth LLC  
Deco-Pour  
Decorative Concrete Supply Inc. S  
Diamatic USA  
MAPEI Corporation  
W.R. Meadows Inc.  
Miracote by Crossfield Products Corp.  
ProSpec, an Oldcastle brand  
Surface519  
Westcoat



**Overlays (Polymer-modified) —  
Spray Textures (Exterior)**

**All in Concrete LLC**  
AquaFin Inc.

**Arizona Polymer Flooring**  
Concrete Coatings Inc.

**Concrete Earth LLC**  
Concrete Mosaics Inc.

**Concrete Solutions (Div. of  
Rhino Linings Corp.)**

**Decorative Concrete Supply Inc.** S

**Elite Crete Systems**

**Engrave-A-Crete**

**EZChem Inc.**  
LunaCrete LLC

**Miracote by Crossfield Products Corp.**

**Performance Polymers LLC**

**Super Stone Inc.**  
Super-Krete Products

**SureCrete Design**

**Westcoat**

**Overlays (Polymer-modified) —  
Stampable Toppings**

**All in Concrete LLC**  
AquaFin Inc.

**Arizona Polymer Flooring**

**Butterfield Color**  
Concrete Coatings Inc.

**Concrete Earth LLC**  
Concrete Mosaics Inc.

**Concrete Solutions (Div. of  
Rhino Linings Corp.)**

**Contractor Source** S

A.W. Cook Cement Products

**Decorative Concrete Supply Inc.** S

Elite Crete Midsouth

**Elite Crete Systems**

**EZChem Inc.**

**H&C Decorative Concrete Products**

Helix Color Systems

Infinicrete S

**Innotech Decorative Concrete  
Products**

Legacy DCS (Div. of Solomon Colors  
Inc.)

**Miracote by Crossfield Products Corp.**

**Performance Polymers LLC**

Super-Krete Products

**Westcoat**

**Overlays (Polymer-modified) —  
Terrazzo**

Heritage Glass Inc.

Infinicrete S

**Overlays (Polymer-modified) —  
Trowelable**

**All in Concrete LLC**  
AquaFin Inc.

**Arizona Polymer Flooring**

**Concrete Earth LLC**  
Concrete Mosaics Inc.

**Concrete Solutions (Div. of  
Rhino Linings Corp.)**

**Contractor Source** S

**Decorative Concrete Supply Inc.** S

**Elite Crete Systems**

**Engrave-A-Crete**

**EZChem Inc.**

**H&C Decorative Concrete Products**

**Innotech Decorative Concrete  
Products**

Something Better Company LLC

Super-Krete Products

**Westcoat**

**Overlays (Polymer-modified) —  
Wood Substrates**

AquaFin Inc.

**EZChem Inc.**

**Performance Polymers LLC**

**Westcoat**

**P****Paint Removers  
(see Strippers)****Patching Compounds —  
Skimcoat (Fast-setting)**

**Concrete Earth LLC**

**Decorative Concrete Supply Inc.** S

Diamatic USA

Metzger/McGuire

**Miracote by Crossfield Products Corp.**

Super-Krete Products

**Pigment — Bag Mixes**

Buddy Rhodes Concrete Products

Chaotic Pigments

Davis Colors

**Decorative Concrete Supply Inc.** S

**Kingdom Products**

**Pigment — Custom Colors**

Chaotic Pigments

**Concrete Earth LLC**

Davis Colors

**Decorative Concrete Supply Inc.** S

Delta Performance Products LLC

Diamatic USA

**Innotech Decorative Concrete  
Products**

**Kingdom Products**

Proline Decorative Concrete Systems

**L.M. Scofield**

Something Better Company LLC

**Pigment — Granular**

Chaotic Pigments

Davis Colors

**Kingdom Products**

**Pigment — Integral**

**Butterfield Color**

Chaotic Pigments

**Concrete Earth LLC**

**Concrete Solutions (Div. of  
Rhino Linings Corp.)**

Construcolor USA

**Contractor Source** S

Davis Colors

**Decorative Concrete Supply Inc.** S

Diamatic USA

Helix Color Systems

Infinicrete S

**Innotech Decorative Concrete  
Products**

**Kemiko Decorative & Industrial  
Coatings**

**Kingdom Products**

Proline Decorative Concrete Systems

**L.M. Scofield**

**The Stamp Store** S

**Westcoat**

**Pigment — Iron Oxide (Liquid)**

**Butterfield Color**

Davis Colors

**enCOUNTER**

**Kingdom Products**

Solomon Colors Inc.

**The Stamp Store** S

**Westcoat**

**Pigment —  
Iron Oxide (Powder)**

**Butterfield Color**

Chaotic Pigments

**Concrete Earth LLC**

Concrete Mosaics Inc.

**Concrete Solutions (Div. of  
Rhino Linings Corp.)**

Davis Colors

**Decorative Concrete Supply Inc.** S

**EZChem Inc.**

**H&C Decorative Concrete Products**

**Innotech Decorative Concrete  
Products**

**Kingdom Products**

Proline Decorative Concrete Systems

**L.M. Scofield**

Solomon Colors Inc.

**Pigment Dispensing Equipment**

Davis Colors

**Kingdom Products**

**Pigment, Specialty —  
Carbon Black**

Chaotic Pigments

Davis Colors

**Decorative Concrete Supply Inc.** S

Helix Color Systems

**Innotech Decorative Concrete  
Products**

**Kingdom Products**

**Pigment, Specialty —  
Metallic Powders**

**Arizona Polymer Flooring**

**Kingdom Products**

**Pigment, Specialty —  
Reflective Granules**

**Kingdom Products**

**Polishing Equipment —  
Accessories**

**All in Concrete LLC**

Alpha Professional Tools

**Decorative Concrete Supply Inc.** S

Diamatic USA

Nufinish Corporation

Reliable Diamond Tool Inc.

SASE Company Inc.

**WerkMaster**

**Xtreme Polishing Systems**

**Polishing Equipment —  
Electric (Hand-held)**

**All in Concrete LLC**

Alpha Professional Tools

**Concrete Countertop Specialties**

**Decorative Concrete Supply Inc.** S

**Leitch & Co.**

Metabo Corporation

SASE Company Inc.

Something Better Company LLC

US Saws Inc.

**WerkMaster**

**Xtreme Polishing Systems**

**Polishing Equipment —  
Electric (Walk-behind)**

**All in Concrete LLC**

**Braxton-Bragg**

**Concrete Countertop Specialties**

Concrete Polishing Solutions

**Decorative Concrete Supply Inc.** S

Diamatic USA

HTC Inc.

**Husqvarna Construction Products**

Innovatech

**National Flooring Equipment**

Nufinish Corporation

SASE Company Inc.

Superabrasive Inc.

**WerkMaster**

**Xtreme Polishing Systems**



**Polishing Equipment —  
Gas/Propane (Walk-behind)**

**All in Concrete LLC**  
Aztec Products Inc.  
Concrete Polishing Solutions  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
Surtec Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Polishing Equipment —  
Pneumatic (Hand-held)**

Alpha Professional Tools  
**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
**Xtreme Polishing Systems**

**Polishing Equipment — Ride-on**

**Decorative Concrete Supply Inc.** S  
Diamatic USA  
HTC Inc.  
**Xtreme Polishing Systems**

**Polishing Pads — Hand-held**

Alpha Professional Tools  
**Concrete Countertop Specialties**  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Floors By Design LLC**  
**Leitch & Co.**  
Reliable Diamond Tool Inc.  
SASE Company Inc.  
Something Better Company LLC  
**Xtreme Polishing Systems**

**Polishing Pads —  
Metal Bond (Diamond)**

**All in Concrete LLC**  
Alpha Professional Tools  
Aztec Products Inc.  
**Concrete Countertop Specialties**  
Concrete Polishing Solutions  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Leitch & Co.**  
Nufinish Corporation  
Reliable Diamond Tool Inc.  
SASE Company Inc.  
Superabrasive Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Polishing Pads —  
Polycarbonate (Diamond)**

**All in Concrete LLC**  
**Decorative Concrete Supply Inc.** S  
SASE Company Inc.  
**Xtreme Polishing Systems**

**Polishing Pads —  
Resin Bond (Diamond)**

**All in Concrete LLC**  
Alpha Professional Tools  
Aztec Products Inc.  
**Concrete Countertop Specialties**  
Concrete Polishing Solutions  
Cutter Diamond Products  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
Diamond Tec  
**Floors By Design LLC**  
**Leitch & Co.**  
**National Flooring Equipment**  
Nufinish Corporation  
Reliable Diamond Tool Inc.  
SASE Company Inc.  
**WerkMaster**  
**Xtreme Polishing Systems**

**Polyaspartics  
(see Coatings or Sealers)****Power Trowels —  
Blades (Plastic Bolt-on)**

Wagman Metal Products Inc.

**Power Trowels —  
Blades (Steel Bolt-on)**

Kraft Tool Company

**Power Trowels —  
Machines (Walk-behind)**

HoverTrowel Inc.

**Prefabricated Cove Base**

SpeedCove Inc./Solid Rock Enterprises

**Precast —  
Baseboard Coping/Coving**

SpeedCove Inc./Solid Rock Enterprises

**Precast — Molding**

Armcon Molds USA

**Publications & Books —  
General (see also  
Training Videos)**

enCOUNTER

**Pump Sprayers — General (see  
also Sprayers, Water Pumps)**

Ball Consulting Ltd.  
**Decorative Concrete Supply Inc.** S

**R****Radiant Heating Systems  
— Electric**

WarmlyYours Inc.

**Rebar — Cutters**

BN Products — USA LLC

**Reinforcement Material —  
Fabric Mesh**

**Chomarat North America**  
SpiderLath

**Reinforcement Material —  
Glass Filament**

Ball Consulting Ltd.  
Something Better Company LLC

**Reinforcement Material —  
Glass, Graphite Mesh**

Ball Consulting Ltd.  
**Chomarat North America**

**Relative Humidity Tests**

Tramex c/o Black Hawk Sales Inc.

**Release Agents —  
Form Release**

Armcon Molds USA  
Ball Consulting Ltd.  
**Concrete Earth LLC**  
Something Better Company LLC  
**Vexcon Chemical**

**Release Agents —  
Liquid Concentrate**

Kingdom Products

**Release Agents —  
Liquid Release**

**All in Concrete LLC**  
**Butterfield Color**  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of  
Rhino Linings Corp.)** S  
**Decorative Concrete Supply Inc.** S  
Elite Crete Systems  
EZChem Inc.  
**H&C Decorative Concrete Products**  
Helix Color Systems  
**Innotech Decorative Concrete  
Products**  
**Kingdom Products**  
LunaCrete LLC  
Proline Decorative Concrete Systems  
**L.M. Scofield** S  
**The Stamp Store**  
**Super Stone Inc.**  
Super-Krete Products  
**Westcoat**

**Release Agents —  
Powder Antiquing Release**

**Butterfield Color**  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of  
Rhino Linings Corp.)** S  
**Decorative Concrete Supply Inc.** S  
**EZChem Inc.**  
Helix Color Systems  
**Innotech Decorative Concrete  
Products**  
**Kingdom Products**  
Proline Decorative Concrete Systems  
**L.M. Scofield** S  
**The Stamp Store**  
**Super Stone Inc.**

**Respirators —  
Cartridge (Disposable)**

**Decorative Concrete Supply Inc.** S

**Retardants — Evaporation  
Suppression**

**Vexcon Chemical**

**Rock-making Materials —  
Bag Mixes**

Ball Consulting Ltd.  
**The Stamp Store** S

**Rock-making Materials —  
Panels, GFRC**

Ball Consulting Ltd.  
Something Better Company LLC  
**SureCrete Design**

**Rock-making Materials —  
Stampable/Carvable**

**The Stamp Store** S

**Rollers (see also Applicators)  
— Aluminum Smoothing Tool**

**Lura Enterprises**  
**Midwest Rake**

**Rollers (see also Applicators)  
— Spiked**

**Midwest Rake**

**S****Salt Rollers (see Texturing  
Tools)****Sandblasting — Machines**

Aqua Blast Corp.  
**Engrave-A-Crete**

**Sandblasting —  
Media/Accessories**

**Engrave-A-Crete**



**Sanding Tools —  
Floor Machines**

**Decorative Concrete Supply Inc.** S  
**Leitch & Co.**  
**Virginia Abrasives**  
**WerkMaster**

**Sanding Tools — Pads**

Something Better Company LLC  
**WerkMaster**

**Saw Blades —  
2-inch Diamond Decorative**

**Xtreme Polishing Systems**

**Saw Blades — Crack Chasing**

Alpha Professional Tools  
 Dust Collection Products  
 Reliable Diamond Tool Inc.  
**Xtreme Polishing Systems**

**Saw Blades —  
Diamond, Dry-cut**

Alpha Professional Tools  
**Engrave-A-Crete**  
 Reliable Diamond Tool Inc.  
**Xtreme Polishing Systems**

**Saw Blades —  
Diamond, Wet-cut**

Alpha Professional Tools  
 Reliable Diamond Tool Inc.  
**Xtreme Polishing Systems**

**Saw Blades —  
Grooving/Scoring**

Alpha Professional Tools  
**Engrave-A-Crete**  
 Reliable Diamond Tool Inc.  
**Xtreme Polishing Systems**

**Saw Carts**

Dust Collection Products

**Saws — Crack Chasing**

Alpha Professional Tools  
 Dust Collection Products

**Saws — Early Entry**

**Husqvarna Construction Products**

**Saws — Grooving/Scoring**

Alpha Professional Tools  
**Engrave-A-Crete**

**Saws — Hand-held**

Alpha Professional Tools  
 Dust Collection Products  
**Engrave-A-Crete**

**Saws — Rail-mounted**

Alpha Professional Tools  
**Engrave-A-Crete**  
**Leitch & Co.**

**Saws — Walk-behind**

Reliable Diamond Tool Inc.

**Scarifiers — Wheel-mounted**

**Decorative Concrete Supply Inc.** S

**Scarifying Machines**

Aztec Products Inc.  
**Decorative Concrete Supply Inc.** S  
 HoverTrowel Inc.  
**National Flooring Equipment**  
 SASE Company Inc.  
**Xtreme Polishing Systems**

**Scoring — Tools**

Alpha Professional Tools  
**Engrave-A-Crete**

**Scraping — Machines**

**Decorative Concrete Supply Inc.** S  
**National Flooring Equipment**

**Scraping — Machines, Ride-on**

Innovatech  
 Quest Building Products

**Scraping — Tools (Hand-held)**

**Decorative Concrete Supply Inc.** S  
**Midwest Rake**

**Screed Accessories**

Metal Forms Corporation

**Screeds — Aluminum Boards**

Kraft Tool Company  
 Slip Industries Inc.

**Screeds — Power-assisted**

**Lura Enterprises**  
 Metal Forms Corporation

**Screeds — Roller**

**Lura Enterprises**  
**Spin Screed Inc.**

**Sealers — Acrylic (Opaque)**

**All in Concrete LLC**  
**Concrete Earth LLC**  
 Concrete Mosaics Inc.  
**Concrete Solutions (Div. of**  
**Rhino Linings Corp.)** S  
**Decorative Concrete Supply Inc.**  
**Engrave-A-Crete**  
**H&C Decorative Concrete Products**  
**Kingdom Products**  
**Miracote by Crossfield Products Corp.**  
**Super Stone Inc.**  
**Surface519**  
**Westcoat**  
**Xtreme Polishing Systems**

**Sealers —  
Acrylic (Transparent)**

**All in Concrete LLC**  
 Aquafin Inc.  
 Color Wheel Paint  
 Concrete Coatings Inc.  
**Concrete Earth LLC**  
**Contractor Source** S  
 Davis Colors  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**EZChem Inc.**  
 Frazee Paint  
**GG Innovative Products Inc.**  
 Helix Color Systems  
**Innotech Decorative Concrete**  
**Products**  
**Kemiko Decorative & Industrial**  
**Coatings**  
**Kingdom Products**  
 Kwal Paint  
**Miracote by Crossfield Products Corp.**  
**Nox-Crete Products Group**  
 Proline Decorative Concrete Systems  
**L.M. Scofield**  
 SRI Concrete Products  
**SS Specialties**  
**Super Stone Inc.**  
 Surface Koatings Inc.  
**Surface519**  
 Surtec Inc.  
**WerkMaster**  
**Westcoat**  
**Xtreme Polishing Systems**

**Sealers — Acrylic Resins**

**Arizona Polymer Flooring**  
**Concrete Earth LLC**  
**Kingdom Products**  
**Surface519**  
**Westcoat**  
**Xtreme Polishing Systems**

**Sealers — Antispalling**

**Concrete Earth LLC**  
**Surface519**  
**Westcoat**  
**Xtreme Polishing Systems**

**Sealers — Concrete  
Countertops**

**Concrete Countertop Specialties**  
**Concrete Earth LLC**  
**Contractor Source** S  
 Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
 Diamatic USA  
**Elite Crete Systems**  
**EZChem Inc.**  
 FLEXMAR Coatings  
**GG Innovative Products Inc.**  
 Infinicrete S  
**Innotech Decorative Concrete**  
**Products**  
**Kemiko Decorative & Industrial**  
**Coatings**  
 Lythic Solutions  
 Something Better Company LLC  
**Surface519**  
**WerkMaster**  
**Westcoat**  
**Xtreme Polishing Systems**

**Sealers — Cure & Seal**

**All in Concrete LLC**  
**Butterfield Color**  
**Concrete Earth LLC**  
 Davis Colors  
**EZChem Inc.**  
 Helix Color Systems  
**Innotech Decorative Concrete**  
**Products**  
**Kingdom Products**  
 Lythic Solutions  
**L.M. Scofield**  
**Surface519**  
**Vexcon Chemical**  
**WerkMaster**  
**Westcoat**

**Sealers — Densifier, Hardener**

**All in Concrete LLC**  
**American Decorative Concrete**  
 Aztec Products Inc.  
**Braxton-Bragg**  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of**  
**Rhino Linings Corp.)** S  
**Decorative Concrete Supply Inc.**  
 Diamatic USA  
**EZChem Inc.**  
**H&C Decorative Concrete Products**  
**Kingdom Products**  
 Lythic Solutions  
**Super Stone Inc.**  
 Super-Krete Products  
**SureCrete Design**  
**Surface519**  
 Surtec Inc.  
**Vexcon Chemical**  
**WerkMaster**  
**Westcoat**  
**Xtreme Polishing Systems**



**Sealers — Epoxy**

**Arizona Polymer Flooring**  
Concrete Coatings Inc.  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Contractor Source** S  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
Metzger/McGuire  
**Miracote by Crossfield Products Corp.**  
Something Better Company LLC  
**SS Specialties**  
**Super Stone Inc.**  
**Surface519**  
**Westcoat**

**Sealers — Polished Concrete**

**All in Concrete LLC**  
Aztec Products Inc.  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Elite Crete Systems**  
FLEXMAR Coatings  
**H&C Decorative Concrete Products**  
**Innotech Decorative Concrete Products**  
Lythic Solutions  
Metzger/McGuire  
**Super Stone Inc.**  
**Surface519**  
**Vexcon Chemical**  
**WerkMaster**  
**Westcoat**  
**Xtreme Polishing Systems**

**Sealers — Lacquer (Gloss Sheen)**

**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Kingdom Products**  
Super-Krete Products  
Surtec Inc.  
**Westcoat**

**Sealers — Lacquer (Low Sheen)**

**Kingdom Products**  
**Westcoat**

**Sealers — Lithium-based**

**All in Concrete LLC**  
Aztec Products Inc.  
**Concrete Earth LLC**  
Diamatic USA  
**H&C Decorative Concrete Products**  
**Surface519** S  
**WerkMaster**  
**Westcoat**

**Sealers — Mobile UV Curing Equipment**

HID Ultraviolet

**Sealers — Penetrating (Dustproofing)**

**All in Concrete LLC**  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Innotech Decorative Concrete Products**  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
Lythic Solutions  
Super-Krete Products  
**Surface519**  
**WerkMaster**  
**Westcoat**

**Sealers — Pigmented**

**Concrete Earth LLC**  
Concrete Mosaics Inc.  
Construcolor USA  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Engrave-A-Crete**  
FLEXMAR Coatings  
Helix Color Systems  
**Innotech Decorative Concrete Products**  
**Kingdom Products**  
**Miracote by Crossfield Products Corp.**  
**L.M. Scofield**  
**Surface519**  
**Vexcon Chemical**  
**Westcoat**

**Sealers — Polyaspartics (see also Coatings)**

Bayer MaterialScience LLC  
Citadel Polyurea Coatings  
Concrete Mosaics Inc.  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**EZChem Inc.**  
FLEXMAR Coatings  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
**The Stamp Store** S  
**Surface519**  
**Westcoat**

**Sealers — Polymers**

Bayer MaterialScience LLC  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
**Innotech Decorative Concrete Products**  
**Kemiko Decorative & Industrial Coatings**  
**Miracote by Crossfield Products Corp.**  
**L.M. Scofield**  
**Surface519**  
**Westcoat**

**Sealers — Polysulfide-based (Pool Decks)**

**Westcoat**

**Sealers — Polyurea**

**Decorative Concrete Supply Inc.** S  
FLEXMAR Coatings  
**Innotech Decorative Concrete Products**  
Metzger/McGuire  
**Surface519**  
**Westcoat**

**Sealers — Silane**

**Concrete Earth LLC**  
**Kingdom Products**  
**Surface519**  
**Vexcon Chemical**

**Sealers — Silicone**

**Surface519**

**Sealers — Siloxane**

**All in Concrete LLC**  
**Concrete Earth LLC**  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
**L.M. Scofield**  
Super-Krete Products  
**Surface519**

**Sealers — Specialty Coatings**

A Gorgeous Floor  
Ames Research Laboratories  
Aquafin Inc.  
Clemons Concrete Coatings  
**Concrete Earth LLC**  
FLEXMAR Coatings  
**Kingdom Products**  
Lythic Solutions  
STARDEK Decorative Concrete Products  
**Surface519**  
Surtec Inc.  
**Vexcon Chemical**  
**Westcoat**

**Sealers — Urethane (see also Coatings)**

Bayer MaterialScience LLC  
Concrete Coatings Inc.  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**GG Innovative Products Inc.**  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
**Miracote by Crossfield Products Corp.**  
Proline Decorative Concrete Systems  
Super-Krete Products  
**Surface519**  
**WerkMaster**  
**Westcoat**

**Sealers — UV-cured (Nanotechnology)**

**Kemiko Decorative & Industrial Coatings**  
Pivotal Coating Technologies Inc.  
**Surface519**  
UV III Systems Inc.



**Sealers — Water-based for Decorative Concrete**

**All in Concrete LLC**  
Bayer MaterialScience LLC  
**Braxton-Bragg**  
**Butterfield Color**  
CHENG Concrete  
**Concrete Earth LLC**  
Concrete Mosaics Inc.  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
Davis Colors  
**Decorative Concrete Supply Inc.** S  
Eco Safety Products  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**EZChem Inc.**  
**GG Innovative Products Inc.**  
**H&C Decorative Concrete Products** S  
**Innotech Decorative Concrete Products**  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
**Miracote by Crossfield Products Corp.**  
Something Better Company LLC  
**SS Specialties**  
**The Stamp Store** S  
Super-Krete Products  
**Surface519**  
**Vexcon Chemical**  
**WerkMaster**  
**Westcoat**

**Sealers — Water-based Urethane Gloss**

**All in Concrete LLC**  
**Arizona Polymer Flooring**  
Bayer MaterialScience LLC  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Elite Crete Systems**  
**GG Innovative Products Inc.**  
Helix Color Systems  
**Miracote by Crossfield Products Corp.**  
Something Better Company LLC  
**SS Specialties**  
**SureCrete Design**  
**Surface519**  
Surtec Inc.  
**WerkMaster**  
**Westcoat**

**Sealers — Water Based Urethane Satin**

**All in Concrete LLC**  
**Arizona Polymer Flooring**  
Bayer MaterialScience LLC  
**Concrete Earth LLC**  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Elite Crete Systems**  
Helix Color Systems  
**Innotech Decorative Concrete Products**  
**Miracote by Crossfield Products Corp.**  
**SS Specialties**  
**Surface519**  
**Westcoat**

**Shoes/Spiked Soles (see also Clothing)**

**Decorative Concrete Supply Inc.** S  
**Midwest Rake**

**Shoes/Spiked Soles (see also Clothing) — Rounded Tip**

**Midwest Rake**

**Shot-blasting — Accessories**

SASE Company Inc.  
**Xtreme Polishing Systems**

**Shot-blasting — Equipment (Hand Held)**

SASE Company Inc.  
**Xtreme Polishing Systems**

**Shot-blasting — Equipment (Riding)**

Quest Building Products  
**Xtreme Polishing Systems**

**Shot-blasting — Equipment (walk behind)**

**Engrave-A-Crete**  
HoverTrowel Inc.  
**National Flooring Equipment**  
SASE Company Inc.  
**Xtreme Polishing Systems**

**Shot-blasting — Media**

**Engrave-A-Crete**  
Quest Building Products  
**Xtreme Polishing Systems**

**Slip-resistant Additives — Powder (e.g. Shark Grip)**

**All in Concrete LLC**  
Concrete Mosaics Inc.  
**Decorative Concrete Supply Inc.** S  
**EZChem Inc.**  
**H&C Decorative Concrete Products**  
Proline Decorative Concrete Systems  
**Westcoat**

**Spiked Rollers**

HoverTrowel Inc.  
**Midwest Rake**

**Sprayers — Aerosol (Disposable)**

Preval

**Sprayers — CO2-powered Systems**

**Xtreme Polishing Systems**

**Sprayers — GFRC Equipment**

Ball Consulting Ltd.

**Sprayers — Hand-held**

**All in Concrete LLC**  
**Decorative Concrete Supply Inc.** S  
Preval  
**SP Systems LLC**  
**Xtreme Polishing Systems**

**Sprayers — Hand-held (Noncorrosive)**

**All in Concrete LLC**

**Sprayers — Industrial Pumps**

**Decorative Concrete Supply Inc.** S

**Sprayers — Industrial Pumps (Noncorrosive)**

**Decorative Concrete Supply Inc.** S

**Spreaders — Roller Screeds**

**Spin Screed Inc.**

**Spreaders — Squeegees/Blades**

**Decorative Concrete Supply Inc.** S

**Squeegees (see also Applicators)**

**Decorative Concrete Supply Inc.** S  
**Midwest Rake**  
**Xtreme Polishing Systems**

**Stain — Acrylic (Concentrates)**

**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
**Engrave-A-Crete**  
**EZChem Inc.**  
Something Better Company LLC  
**Surface519**

**Stain — Acrylic (Water-based)**

**Arizona Polymer Flooring**  
**Concrete Earth LLC**  
**Contractor Source** S  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**Engrave-A-Crete**  
**EZChem Inc.**  
**H&C Decorative Concrete Products**  
**Performance Polymers LLC**  
Proline Decorative Concrete Systems  
Something Better Company LLC  
Super-Krete Products  
**Surface519**  
Triple-S Chemical Products Inc.  
**Westcoat**

**Stain — Alternative**

**All in Concrete LLC**  
**Concrete Earth LLC**  
FLEXMAR Coatings  
**GG Innovative Products Inc.**  
**Surface519**

**Stain — Dyes**

**All in Concrete LLC**  
**American Decorative Concrete**  
**Arizona Polymer Flooring**  
**Braxton-Bragg**  
Concrete Coatings Inc.  
**Concrete Earth LLC**  
Concrete Mosaics Inc.  
**Concrete Solutions (Div. of Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
**Elite Crete Systems**  
**enCOUNTER**  
**EZChem Inc.**  
Floor Gear Inc.  
**GG Innovative Products Inc.**  
**H&C Decorative Concrete Products**  
Helix Color Systems  
**Innotech Decorative Concrete Products**  
**Kemiko Decorative & Industrial Coatings**  
**Kingdom Products**  
**L.M. Scofield**  
**SS Specialties**  
**The Stamp Store** S  
Surface Coatings Inc.  
**Surface519**  
**WerkMaster**  
**Westcoat**  
**Xtreme Polishing Systems**

**Stain — Epoxy/Polymer**

**Decorative Concrete Supply Inc.** S  
**Kemiko Decorative & Industrial Coatings**

**Stain — Epoxy/Polyurea**

Citadel Polyurea Coatings  
**Decorative Concrete Supply Inc.** S



**Stain — Exterior Solvent-based Dye**

Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
enCOUNTER  
EZChem Inc.  
Xtreme Polishing Systems

**Stain — Exterior UV-stable**

All in Concrete LLC  
Clemons Concrete Coatings  
Concrete Earth LLC  
Concrete Mosaics Inc.  
Decorative Concrete Supply Inc. S  
enCOUNTER  
EZChem Inc.  
FLEXMAR Coatings  
GG Innovative Products Inc.  
Kemiko Decorative & Industrial Coatings  
SS Specialties  
Surface519  
Xtreme Polishing Systems

**Stain — Opaque Coatings**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Miracote by Crossfield Products Corp.  
Vexcon Chemical  
Westcoat

**Stain — Polymer-modified**

Decorative Concrete Supply Inc. S  
Elite Crete Systems  
Innotech Decorative Concrete Products  
NewLook International Inc.  
Surface519  
Westcoat

**Stain — Reactive Acid**

Arizona Polymer Flooring  
Butterfield Color  
Concrete Coatings Inc.  
Concrete Mosaics Inc.  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Decorative Concrete Supply Inc. S  
Elite Crete Systems  
enCOUNTER  
Engrave-A-Crete  
EZChem Inc.  
H&C Decorative Concrete Products  
Helix Color Systems  
Infinicrete S  
Innotech Decorative Concrete Products  
Kemiko Decorative & Industrial Coatings  
Kingdom Products  
Proline Decorative Concrete Systems  
L.M. Scofield  
SRI Concrete Products  
Triple-S Chemical Products Inc.  
Westcoat

**Stain — Reactive Acid (Concentrates)**

Butterfield Color  
Concrete Solutions (Div. of Rhino Linings Corp.)  
Decorative Concrete Supply Inc. S  
Engrave-A-Crete  
EZChem Inc.  
SS Specialties  
The Stamp Store S

**Stain — Reactive Acid (Organic)**

All in Concrete LLC  
Concrete Earth LLC  
Contractor Source S

**Stain — Soy-based (see also Color Restoration Coatings)**

All in Concrete LLC  
Concrete Earth LLC  
Eco Safety Products

**Stain — Water-based Dye**

All in Concrete LLC  
Arizona Polymer Flooring  
Butterfield Color  
Concrete Earth LLC  
Deco-Pour  
Decorative Concrete Supply Inc. S  
Diamatic USA  
Elite Crete Systems  
enCOUNTER  
GG Innovative Products Inc.  
Infinicrete S  
Kemiko Decorative & Industrial Coatings  
The Stamp Store S  
Surface519  
WerkMaster  
Xtreme Polishing Systems

**Stain — Water-based Penetrating**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Diamatic USA  
Elite Crete Systems  
EZChem Inc.  
GG Innovative Products Inc.  
L & M Industries LLC  
L.M. Scofield  
SS Specialties  
SureCrete Design  
Surface519

**Stain Block**

Lythic Solutions  
Metzger/McGuire  
The Stamp Store S  
Surface519  
WerkMaster

**Stamps (see Texturing Tools)****Stenciling Gels (Etching Solutions)**

Engrave-A-Crete  
Surface Gel Tek LLC

**Stencils — Adhesive-backed**

Engrave-A-Crete  
Modello Designs  
The Stamp Store S  
Surface Gel Tek LLC  
Universal Templates Inc.

**Stencils — Borders**

Engrave-A-Crete  
Modello Designs  
Surface Gel Tek LLC

**Stencils — Custom Design Services**

Engrave-A-Crete  
Modello Designs  
SS Specialties  
The Stamp Store S  
Surface Gel Tek LLC

**Stencils — Paper**

Artcrete Inc.  
STARDEK Decorative Concrete Products

**Stencils — Stain Block**

Engrave-A-Crete

**Stencils — Templates (Reusable)**

Engrave-A-Crete  
Modello Designs  
Universal Templates Inc.

**Stencils — Vinyl**

Engrave-A-Crete  
Modello Designs  
Surface Gel Tek LLC

**Strippers — Epoxy Remover**

SS Specialties

**Strippers — Epoxy Remover (Soy-based)**

All in Concrete LLC  
Concrete Earth LLC  
Franmar Chemical  
The Stamp Store S

**Strippers — General-purpose**

Decorative Concrete Supply Inc. S  
EZChem Inc.  
Franmar Chemical  
Vexcon Chemical

**Strippers — Mastic Remover**

Concrete Mosaics Inc.  
Decorative Concrete Supply Inc. S  
EZChem Inc.

**Strippers — Mastic Remover (Soy-based)**

All in Concrete LLC  
Concrete Earth LLC  
Decorative Concrete Supply Inc. S  
Franmar Chemical

**Strippers — Paint Remover**

Decorative Concrete Supply Inc. S  
EZChem Inc.

**Strippers — Paint Remover (Biodegradable)**

Decorative Concrete Supply Inc. S  
Franmar Chemical  
SS Specialties  
Super Stone Inc.



**Strippers — Sealer Remover****Concrete Earth LLC**

Concrete Mosaics Inc.

**Decorative Concrete Supply Inc.** S**EZChem Inc.****The Stamp Store** S

Super-Krete Products

**Strippers — Sealer Remover (Soy-based)****All in Concrete LLC****Concrete Earth LLC****Decorative Concrete Supply Inc.** S**Franmar Chemical****Strippers — Sealer Remover (Water-based)****EZChem Inc.****Innotech Decorative Concrete Products****SS Specialties****Surface Evaporation Retarder****All in Concrete LLC****WerkMaster****Surface Scraping — Machines****National Flooring Equipment**

Reliable Diamond Tool Inc.

SASE Company Inc.

**WerkMaster****Surface Scraping — Tools**

Nufinish Corporation

Reliable Diamond Tool Inc.

SASE Company Inc.

**Surveying Equipment**

Tramex c/o Black Hawk Sales Inc.

**T****Tampers — General (see also Texturing Tools)****Decorative Concrete Supply Inc.** S**Midwest Rake**

Proline Decorative Concrete Systems

**Terrazzo — Aggregates**

Ambient Glow Technology

**American Specialty Glass**

Heritage Glass Inc.

**Terrazzo — Tools****Midwest Rake**

Reliable Diamond Tool Inc.

**WerkMaster****Texture Rollers — Pattern Finish**

Artcrete Inc.

Something Better Company LLC

**Texture Rollers — Seamless Texture**

Proline Decorative Concrete Systems

Something Better Company LLC

**Texturing Sprayers (see sprayers)****Texturing Tools — Border Stamps****Contractor Source** S**Decorative Concrete Supply Inc.** S

Pacific Concrete Images

Proline Decorative Concrete Systems

Something Better Company LLC

**Super Stone Inc.****Texturing Tools — Company-designed Stamps**

Brickform (Div. of Solomon Colors Inc.)

**Decorative Concrete Supply Inc.** S

Pacific Concrete Images

Proline Decorative Concrete Systems

**Texturing Tools — Custom Design Services****Decorative Concrete Supply Inc.** S

Pacific Concrete Images

Proline Decorative Concrete Systems

**L.M. Scofield****Xtreme Polishing Systems****Texturing Tools — Embossing Stamps (Aluminum)****Super Stone Inc.****Texturing Tools — Embossing Stamps (Plastic)****Xtreme Polishing Systems****Texturing Tools — Hand Tools****Butterfield Color****Decorative Concrete Supply Inc.** S

Kraft Tool Company

Proline Decorative Concrete Systems

Slip Industries Inc.

Something Better Company LLC

**Texturing Tools — Joint Rollers/Strips****Decorative Concrete Supply Inc.** S**Innotech Decorative Concrete Products**

Proline Decorative Concrete Systems

**Texturing Tools — Pattern Stamps (Concrete)****Butterfield Color****Concrete Solutions (Div. of Rhino Linings Corp.)****Contractor Source** S**Decorative Concrete Supply Inc.** S**Innotech Decorative Concrete Products**

Matcrete Inc.

Pacific Concrete Images

Proline Decorative Concrete Systems

**L.M. Scofield**

Something Better Company LLC

**The Stamp Store** S**Super Stone Inc.****Xtreme Polishing Systems****Texturing Tools — Pattern Stamps (Overlays)****Butterfield Color****Concrete Solutions (Div. of Rhino Linings Corp.)****Decorative Concrete Supply Inc.** S**Innotech Decorative Concrete Products**

Proline Decorative Concrete Systems

Silpak Inc.

Something Better Company LLC

**The Stamp Store** S**Xtreme Polishing Systems****Texturing Tools — Seamless Texture Skins****Butterfield Color****Concrete Solutions (Div. of Rhino Linings Corp.)****Decorative Concrete Supply Inc.** S**Innotech Decorative Concrete Products**

Matcrete Inc.

Pacific Concrete Images

Proline Decorative Concrete Systems

**L.M. Scofield****The Stamp Store** S**Super Stone Inc.****Texturing Tools — Tampers****Butterfield Color****Concrete Solutions (Div. of Rhino Linings Corp.)****Decorative Concrete Supply Inc.** S

Pacific Concrete Images

Proline Decorative Concrete Systems

**Texturing Tools — Truncated Dome Stamps****Butterfield Color****Decorative Concrete Supply Inc.** S**Super Stone Inc.****Texturing Tools — Vertical Pattern Stamps****Butterfield Color****Decorative Concrete Supply Inc.** S

Something Better Company LLC

**Toll Blending Services — Dry Powder Cement Products**

Aquafin Inc.

**EZChem Inc.****Kingdom Products**

TOTAL Marketing LLC

**Toll Blending Services — Liquid Blending Solvent Based Products****EZChem Inc.****Toll Blending Services — Liquid Blending Water Based Products****EZChem Inc.**

TOTAL Marketing LLC

**Toll Blending Services — Private Labeling**

Aquafin Inc.

Chaotic Pigments

**EZChem Inc.****Kingdom Products**

TOTAL Marketing LLC

**Traction Testing (see Friction/Traction Testing)****Trade Shows****Concrete Decor Show & Spring Training****Decorative Concrete Supply Inc.** S**Trailers — Enclosed Cargo****Xtreme Polishing Systems****Training****Arizona Polymer Flooring**

CHENG Concrete

**Concrete Solutions (Div. of Rhino Linings Corp.)****Decorative Concrete Supply Inc.** S

Diamatic USA

**Elite Crete Systems****Engrave-A-Crete****National Flooring Equipment**

Pure Texture

Super-Krete Products

**Xtreme Polishing Systems**



### Training Videos — Concrete Countertops

CHENG Concrete  
The Concrete Countertop Institute  
Countertop Solutions / Ashby System  
**Decorative Concrete Supply Inc.** S  
**enCOUNTER**  
Something Better Company LLC  
**The Stamp Store** S

### Training Videos — Concrete Polishing

**WerkMaster**

### Training Videos — Concrete Stamping/Texturing

**Butterfield Color**  
**Decorative Concrete Supply Inc.** S  
Something Better Company LLC  
Super-Krete Products

### Training Videos — Concrete Surface Preparation

Super-Krete Products

### Training Videos — Engraving

**Engrave-A-Crete**

### Training Videos — Epoxy Flooring

**Westcoat**

### Training Videos — Garage Floor Coatings

**Westcoat**

### Training Videos — Overlays

Something Better Company LLC  
**Super Stone Inc.**  
Super-Krete Products  
**Westcoat**

### Training Videos — Rock Features

Something Better Company LLC

### Training Videos — Staining Techniques

**Butterfield Color**  
Something Better Company LLC

### Training Videos — Vertical Systems

Something Better Company LLC  
**The Stamp Store** S

### Training Videos — Waterproof Decking

**Westcoat**

### Transits, Levels

Slip Industries Inc.

### Trowels — Bull

**Decorative Concrete Supply Inc.** S

### Trowels — Coving (Inside Radius)

**Midwest Rake**

### Trowels — Edgers

**Decorative Concrete Supply Inc.** S  
Slip Industries Inc.

### Trowels — Finishing Trowels

**Decorative Concrete Supply Inc.** S  
Kraft Tool Company  
**Midwest Rake**

### Trowels — Fresnos

**Decorative Concrete Supply Inc.** S

### Trowels — Grooving Tools (Hand)

**Decorative Concrete Supply Inc.** S  
Slip Industries Inc.

### Trowels — Grooving Tools (Ramps)

Slip Industries Inc.

### Trowels — Grooving Tools (Walking)

Slip Industries Inc.

### Trowels — Jointers

**Decorative Concrete Supply Inc.** S  
Slip Industries Inc.

### Trowels — Smoothers

**Decorative Concrete Supply Inc.** S  
**Midwest Rake**

## U

### Underlayment (Self-leveling) — Calcium Aluminate Cement

Lythic Solutions  
ProSpec, an Oldcastle brand  
**Westcoat**

### Underlayment (Self-leveling) — Cementitious

**All in Concrete LLC**  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
TOTAL Marketing LLC  
**Westcoat**

### Underlayment (Self-leveling) — Epoxy

**Westcoat**

### Underlayment (Self-leveling) — Gypsum

**Concrete Earth LLC**  
**Westcoat**

## V

### Vacuums — Dry

**All in Concrete LLC**  
Alpha Professional Tools  
Diamatic USA  
**WerkMaster**  
**Xtreme Polishing Systems**

### Vacuums — Filters (HEPA)

**All in Concrete LLC**  
Alpha Professional Tools  
Diamatic USA  
**WerkMaster**  
**Xtreme Polishing Systems**

### Vacuums — Self-cleaning

**All in Concrete LLC**  
Diamatic USA  
**WerkMaster**  
**Xtreme Polishing Systems**

### Vacuums — Shrouds, Muzzles

**All in Concrete LLC**  
Alpha Professional Tools  
**Decorative Concrete Supply Inc.** S  
Diamatic USA  
Dust Collection Products  
**Xtreme Polishing Systems**

### Vacuums — Wet

**Xtreme Polishing Systems**

### Vacuums — Wet & Dry

Diamatic USA  
Ermator LLC  
**WerkMaster**

### Vapor Barriers — Concrete Surface Polymer

Aquafin Inc.  
**Arizona Polymer Flooring**  
**Surface519**

### Vapor Barriers — Subgrade Films/Membranes (see also Waterproofing)

**Concrete Earth LLC**

### Vertical Overlay (Polymer)

**Decorative Concrete Supply Inc.** S

### Vertical Overlays (Cementitious) — Stampable/Carvable

**Butterfield Color**  
**Contractor Source** S  
**Decorative Concrete Supply Inc.** S  
Elite Crete Systems  
EZChem Inc.  
**SS Specialties**  
STARDEK Decorative Concrete Products  
**SureCrete Design**

### Vibratory Equipment — Tables

Armcon Molds USA

### Vinyl Chips — General (see also Epoxy (base))

Chips Unlimited Inc.  
**Concrete Solutions (Div. of  
Rhino Linings Corp.)**  
**Decorative Concrete Supply Inc.** S  
**The Stamp Store** S

## W

### Wall Forms (see Forms)

### Water Drainage Systems — General (see also Drains)

Sustainable Paving Systems LLC

### Waterproofing Systems/Membranes

Ames Research Laboratories  
Aquafin Inc.  
**Concrete Earth LLC**  
**Miracote by Crossfield Products Corp.**  
**Westcoat**

### Waxes — Countertop Maintenance

**All in Concrete LLC**  
CHENG Concrete  
**Concrete Countertop Specialties**  
**Concrete Earth LLC**  
**Decorative Concrete Supply Inc.** S  
**EZChem Inc.**  
Infinicrete S  
**Leitch & Co.**  
**Surface519**

### Waxes — Countertop Treatment

**Concrete Earth LLC**  
**EZChem Inc.**  
**Surface519**

### Waxes — Floor Maintenance

**All in Concrete LLC**  
Concrete Coatings Inc.  
**Concrete Earth LLC**  
Concrete Mosaics Inc.  
**Decorative Concrete Supply Inc.** S  
**Engrave-A-Crete**  
**EZChem Inc.**  
**Surface519**



# Attention Contractors!

## Discover How To Give Yourself a \$1,100 Per Week Pay-Raise... ...even in "this economy"

**After Just Two Days, You Could Be "Bringin' Home the Bacon" to the tune of an extra \$1,100 per week or more – without any extra staff.**



### Contractors! Listen Up.

Times have been tough over the past 24-36 months. But you need to understand...

*It's not your fault* the economy crashed.

*It's not your fault* customers clamped down on their wallets with the force of a hydraulic press.

We understand that. And, we want to help you be the go-to guy in your area as things turn around.

### Less Competition...

One good thing about recessions is the fact that they get rid of all the jack-legs and "wannabe" contractors. So, if you are still in business – at all – then you are obviously one of the best in your area. Congratulations!

### More Opportunity...

Do you know what Hyatt, Burger King, IHOP, Fed-Ex, Microsoft, CNN, MTV and Sports Illustrated all have in common? They all started their businesses during a recession.

Now, you may not want to turn your business into the next mega-million dollar business, but it's nice to know that you could... even in this economy.

### More Consumer Spending...

Signs are showing this economy has finally turned a corner. Yes, gas prices are rising. But consumers are spending again.

But, because they can't (or don't want to) go out and buy a new house, they are fixing up the houses they are in. What's more, we've found a way for you to tap into that new spending and turn it into a \$1,100 per week income or more.

### Would You Trade Two Days for an extra \$57,200 per year?

Let's face it, you are not going to add \$1,100 per week to your income without doing something different than what you are doing right now. That's just the facts.

The good news is, we've already figured out an exact money-making blueprint that could have you easily making an extra \$1,100 per week without any extra staff. And if you do know some guys that need some work, you could make even more.

All you need to do is be willing to spend two days with us as we lay-out the entire step-by-step, money-making blueprint for you. We'll show you the skills you need, the equipment, the marketing... everything you need to be up and running the day you get home.

### Why Would We Show You This?

It's pretty straightforward actually. You see, we sell the equipment and supplies you'll need as you grow your business.

In other words, the more successful you are, the more successful we are because once you become the go-to-guy in your area, then we believe you'll come back to us for all your supplies.

Basically, if you are willing to spend two days with us, checkout the money-making blueprint for yourself. Check out the equipment and everything else we give you to make you successful, then decide if this \$1,100 per week business is for you. If not, no big deal.

### How To Get Started...

If this sounds like a challenge you're up for... if you are tired of scraping by when you know people are spending money... if you are ready to start pulling in an extra \$1,100 per week then all you need to do is pick up the phone and call us at 1-877-493-0205 for more information.

Listen, it's not your fault the economy tanked on you... but it will be your fault if you let this opportunity pass by without at least picking up the phone and getting more information.

Simply call 1-877-493-0205 for more info and to see if your area is already taken. Ask about the "\$1,100 per week Money-Making Blueprint." Go ahead and call right now!

## Call right now! 1-877-493-0205





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Spring Training: February 20-24, 2012

Exhibits: February 22-24, 2012

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