

# Certification for Applicators

**S**SPC has long recognized that the industrial painting sector needs a comprehensive craft worker training and certification program. The program should be designed to create a readily available, trained, and qualified workforce to meet the ever-increasing facility owner demands for quality work completed safely, on-time, and within budget—quite a tall order. The industrial painting trade has become a highly technical profession. With the introduction of more sophisticated coatings, the need for qualified craft workers is greater than ever.

Thus, in 2008, SSPC and NACE jointly published a standard, spelling out the criteria for programs that certify individual industrial painters to the highest standard of craftsmanship. The new SSPC “Industrial Coating and Lining Application Specialist Qualification and Certification Program” (CAS) is based on the new joint standard. CAS focuses on the needs of the application specialist and provides criteria for the education, training, experience, knowledge, and motor skills required to prepare and coat the steel and concrete surfaces of complex industrial and marine structures. Facility owners and contractors may also use this program for certification of application specialists for other substrates or conditions, as considered appropriate.

SSPC conservatively estimates that it will take the industry ten years to develop a substantial group of trained and qualified industrial painters meeting the standard’s criteria and the needs of owners. Therefore, SSPC proposes a two-part approach to the joint standard: full implementation in 8–12 years and partial implementation through an interim program beginning this year.

To this end, SSPC has created the “Interim Certification Program,” which allows those in the current workforce the opportunity to realistically achieve certification during the next several years. Craft workers who have fewer hours of formal training and experience than specified in the SSPC/NACE standard are eligible to achieve interim certification if they have a minimum of 150 hours of formal training and at least 2,000 hours of experience. They will still be

required to pass a rigorous written examination of knowledge and undergo a thorough hands-on skills assessment in industrial painting and blast cleaning to assess competency.

With the support of facility owners, SSPC is confident that this program can be used to develop a qualified pool of craft workers. SSPC strongly recommends that facility owners who wish to have certified craft workers on their job sites over the next several years specify the following:

- a certified contractor quality management system, such as SSPC-QP 1, and
- a ratio of craft workers to trainees, certified to the SSPC Interim Program.

SSPC believes that the Interim Program is the most feasible approach to help develop a highly qualified workforce sooner rather than later. This approach will improve quality on the job in the here and now by giving contractors access to more qualified workers.

In recent decades, SSPC has developed certification programs to mark the achievement of individual protective coatings specialists (PCS) and coating and lining inspectors. SSPC has also developed a series of quality certification programs to assess the capabilities and quality systems of coating contractors (SSPC-QP 1 and QP 2) and coatings and lining inspection companies (QP 5). The new SSPC program to certify individual industrial painters will close the “training and certification” loop by marking the achievement and skills of the industrial painter.

Recognition goes to members of the Board-appointed committee that oversaw, reviewed, and approved the Applicator Certification Transition Plan: Greta Smith, Chair; Chris Aivalotis; Steve Collins; Allan DeLange; Tom Dunkin; Dan Zarate; and Bob Ziegler.

Michael Damiano, SSPC  
Director of Product Development

## Clemco's Scott Blackburn: 1938–2008

**F**rederic Scott Blackburn, former vice president of sales for Clemco Industries, suffered a heart attack and died suddenly on August 12, 2008, while playing golf. He was 69.

Scott began his career in the industry in the mid-1960s as a sales rep for a Clemco distributor in Ohio, Maruna Paint and Spray Equipment. In 1974, he joined Clemco as a district representative, covering the Midwest territory. He managed the distributor network, setting up and providing sales and marketing support to the distributors of Clemco products. In 1980, Scott accepted a position as regional manager in charge of Clemco International's Asian operations, and he moved to Singapore. In 1984, he returned to the U.S. as national sales manager, working out of the San Francisco office. In 1990, Clemco appointed him to the position of vice president of sales, and he moved to Washington, MO, as part of Clemco's consolidation of its USA operations. At that time, Washington, MO, became the U.S. headquarters of Clemco's worldwide operations. Although Scott retired from Clemco in 2003, he remained involved with the company, serving as a consultant.

For many years, Scott shared his professional expertise to advance the protective coatings industry. According to SSPC: The Society for Protective Coatings, he was a member of the trade group since 1984, when individual membership began. Over the years, he served on SSPC's Abrasives Committee and on the task group for the development of SSPC's Abrasive Blasting course (C7). He also wrote Chapter 2.5, "Abrasive Blast Cleaning," in the fourth edition of SSPC's *Good Painting Practice*, and he participated in Clemco's editorial contributions to *JPCL*. As a member of the Board of

Governors in 2002–2003, he helped lead SSPC.

Likeable and personable, Scott was a gentleman and a man of many talents and interests. He was a photographer, a pilot, a fly fisherman, a golfer, a woodworker, and a pretty mean cook. He had a great sense of humor. He was a passionate Cleveland Indians and Browns fan. He enjoyed opera and many kinds of music, and most would agree that he could carry a pretty good tune.

Above all, Scott was devoted to his family. He is survived by his

wife of 50 years, Shirley; two sons and a daughter; their spouses; and 11 grandchildren, of whom he was extremely proud. As his Clemco family attests, he made his many friends feel like family: "Clemco has lost a very dear friend."

Funeral services for Scott are private. Donations in his memory may be made to any charity. Acknowledgements for those donations and condolences may be sent to Shirley Blackburn and family, c/o Clemco Industries Corp., One Cable Car Drive, Washington, MO 63090.



### Rhino Linings Appoints Sales Director, Americas

**R**hino Linings Corporation (San Diego, CA) has announced the promotion of Joe Nichy to sales director, Americas. Nichy will oversee the core businesses of Rhino Linings—industrial and commercial coating applications, retail truck bed liner outlets, and the company's new Home Pro™ residential flooring business.

Nichy is a coatings industry veteran with over 20 years of sales management and new business development experience. Since joining Rhino Linings in 2007 as national industrial sales manager, he has also been a vital team member in directing the company's expansion of new industrial coatings products, the company says.

Nichy is a member of NACE International, ICRI (International Concrete Repair Institute) and SSPC.

Rhino Linings Corporation develops and manufactures sprayed-on and rolled-on high-performance polyurethane, polyurea, and hybrid formulations for industrial, commercial, and retail lining applications.

## Emerald Forms CVC Thermoset Division

**E**merald Performance Materials, LLC ("Emerald") has formed CVC Thermoset Specialties Division—the combination of CVC Specialty Chemicals and Emerald's Reactive Liquid Polymers (RLP) businesses. The Cuyahoga, Ohio-based Emerald acquired CVC Specialty Chemicals earlier this year. Emerald named John Cech, former president and founder of CVC Specialty Chemicals, president of

the new business unit.

"There is a natural fit between these businesses, which offer complementary product lines to common end use applications," Cech said. The new division develops and manufactures key raw materials for products such as coatings for the industrial, marine, and automotive markets. It also makes raw materials for structural composites and adhesives used in a variety of

industrial and consumer products.

The CVC Thermoset Specialties Division will be headquartered in Moorestown, NJ, with operations in Moorestown and Maple Shade, NJ, and Akron, OH.

Emerald Performance Materials, LLC produces and markets specialty chemicals for a broad range of uses, including industrial and food applications.

## ASTM Approves Standard for Coated Rebar

**A**STM International's Committee A01 recently approved a new standard, ASTM A1055, Specification for Zinc and Epoxy Dual Coated Steel Reinforcing Bars [rebar]. Subcommittee A01.05 on Steel Reinforcement developed the standard under the jurisdiction of Committee A01 on Steel, Stainless Steel and Related Alloys.

ASTM A1055 will be most beneficial to state departments of transportation that require high-performance corrosion protection of reinforcing steel bars in coastal environments, as well as departments of transportation that use deicing salts on roads, bridges, and decks, according to Andrew Marquardt, product manager at Gerdau Ameristeel and a member of the task group that developed the new standard. He also noted that ASTM A1055 will meet the needs of design engineers specifying steel products for buildings along a coast, wastewater treatment plants, and facilities that use harsh chemicals.

Committee A01 is one of 138 standards-writing committees of West Conshohocken, PA-based ASTM International.

For further information, contact ASTM at 610-832-9585 or visit [www.astm.org](http://www.astm.org).

## Bayer Names New U.S. CEO

**T**he Management Board of Bayer AG (Pittsburgh, PA) has announced that Greg Babe will become president and CEO of Bayer Corporation and the senior Bayer representative in North America, effective October 1, 2008. He is succeeding Dr. Attila Molnar, who will retire from the company after 30 years of service.

Babe will also maintain his role as president and CEO of Bayer MaterialScience LLC, a producer of polymers and high-performance plastics in North America and a part of the global Bayer MaterialScience business. Before holding this position, Babe was president and CEO of Bayer Corporate and Business Services LLC.

Babe serves on the Boards of



Directors for Bayer MaterialScience LLC; Deerfield Urethane, Inc.; and Sheffield Plastics. In addition, he is the chair of the Bayer Political Action Committee (BAYPAC). For five years he served as the executive sponsor of the Bayer Diversity Advisory

Council. Babe also is serving his second term as chairman of the American Chemistry Council's Plastics Division Operating Committee. In Pittsburgh, he is a member of the Executive Committee and Board of Directors of the Pittsburgh Technology Council. Babe holds a BS in mechanical engineering from West Virginia University.

Bayer Corporation is the U.S. subsidiary of the Bayer Group of Germany.

## Safety Lamp Names New President, Supervisor

**S**afety Lamp of Houston, Inc. (Humble, TX) has announced two personnel changes.

The company appointed Deborah A. Reeves president of the corporation. With 21 years of dedicated service, said CEO T.F. Fallon, she has

earned this recognition.

In addition, Kristofer Aughinbaugh joins the company as sales and service supervisor. His years of experience in the rental tool business, Fallon said, will foster the company's growth.

## DoD Releases Funding for Coatings Training

**S**SPC has announced that funding is once again available from the U.S. Department of Defense for government personnel to enroll in coatings training. This funding is provided under a \$1 million contract between NACE International and the DoD. SSPC has been subcontracted by NACE to provide the coatings training.

Under the contract, government personnel can register for an approved SSPC coatings training course and have the cost for the course covered by the funding. The SSPC subcontract provides \$250,000 for government personnel to take coatings training courses through SSPC. The new contract is good for 23 months, beginning July 23, 2008.

Courses available under the funding include

- Fundamentals of Protective Coatings (C-1);
- Fundamentals of Protective Coatings (C-1) Online Course;
- Managing Coatings Projects (C-2);
- Managing Coatings Projects (C-2) Online Course;
- NAVSEA Basic Paint Inspector (NBPI);
- Concrete Coating Inspector Program (CCI, C-11);
- Abrasive Blasting Program (C-7);
- Airless Spray Basics (C-12); and
- Marine Plural Component Program (MPCAC, C-14).

For further information, or to register for a course, please contact Jennifer Miller at 877-281-7772, ext. 2221; email: [miller@sspc.org](mailto:miller@sspc.org).

### SSPC International Training Roundup

SSPC training courses continue to be important to many companies, both in the U.S. and abroad. The following is a brief recap of some of the courses held in May, June, and July of this year.

SSPC Instructors Tom Jones and Muniandi Dewadas taught 26 students during a Protective Coatings Inspector (PCI) course held in Singapore May 7–11. According to SSPC, the course is the first offering of SSPC training held in Singapore.

The Japan Chapter hosted SSPC C-12, Airless Spray Basics, for 35 people and C-14, MPCAC, for 35 people in Sasebo. These training courses are the first that the Japan Chapter has offered, SSPC says.

Sumitomo Heavy Industries hosted the C-12 course for 25 attendees in Sasebo and the C-12 and C-13, Water Jetting Program, for 35 attendees in Yokosuka, SSPC says.

The U.S. Naval Ship Repair Facility (SRF) and Japan Regional Maintenance

Center held its 2nd offering of the NAVSEA Basic Paint Inspector (NBPI) course on June 16–20 in Yokosuka. SSPC's Jennifer Miller helped to imple-

ment the revisions to the new NBPI course that was offered on the base for SRF personnel. Ms. Miller also gave a presentation on base about NAVSEA-

required SSPC training and other SSPC programs and activities. Nineteen students attended the course, the Society reports.

United Coatings hosted a C-13 course June 23–24, 2008 in Portsmouth, VA. Ten students were taught by Frank Saunders.

Thirty students attended the SSPC PCI course in Batam, Indonesia, on July 7–12, and twenty-four attended another PCI offering on July 14–19. Helping to organize the event were Alexander Wijaya, WHW Consulting Services; Abdul S. Rashid, J. Ray McDermott Asia Pacific, Pte; Muniandi Dewadas; and Tom Jones, SSPC.

Abdul Quim (Bani) of ConocoPhillips and Ravindra V. Gadamsetti of Foster Wheeler also helped organize the SSPC courses in Singapore as well as Indonesia.



PCI training in Batam, Indonesia



PCI training in Singapore



NBPI training in Yokosuka, Japan

## SSPC Seeks Industry Experts for PACE 2009 Technical Program

The SSPC Technical Program at PACE 2009 is rapidly taking shape, with sessions planned on topics ranging from durability to industrial maintenance to

thick-film coatings.

In addition, experts have been lined up to address trends in various industry segments such as defense, bridges, water/wastewater, and commercial construction.

Despite the original deadline to contribute, SSPC is still looking for a few speakers to fill out the following sessions: concrete architectural; offshore platform; power; oil refineries; wastewater; actual cost of coatings jobs; concrete highway; marine; and navy.

For further details, please contact Jennifer Miller at 877-281-7772, ext. 2221; email: [miller@sspc.org](mailto:miller@sspc.org).

## New Coating Applicator Certification Program

In conjunction with a group of industry professionals that included coatings contractors, facility owners, inspectors, consultants, and manufacturers, SSPC has developed the new Industrial Coating and Lining Application Specialist Qualification and Certification Program, or CAS. The CAS meets the requirements of the joint SSPC ACS-1/NACE 13 standard



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that was ratified in early 2008. It also meets the requirements of the ISO 17024 standard. The program focuses on the needs of the Application Specialist and provides criteria for the education and training required to prepare and apply protective coatings to steel and concrete surfaces of industrial and marine structures.

SSPC estimates that it will take the industry ten years to develop a significant group of trained and qualified industrial painters that meet the new standard's stringent criteria and the needs of owners. Therefore, to address the immediate need for qualified applicators, SSPC has developed an interim certification program that gives those in the current workforce the opportunity to achieve certification more quickly.

According to Bill Shoup, Executive Director of SSPC, "Even craft workers who have fewer hours of formal train-

ing and experience than specified in the SSPC/NACE standard can be eligible for the interim program by passing a qualification test. Experienced craft workers that already meet the eligibility requirements for interim certification will need to pass a written exam and undergo a hands-on skills assessment to achieve certification."

SSPC strongly recommends that facility owners who wish to have certified craft workers on their job sites over the next several years specify a certified contractor quality management system, such as SSPC-QP 1, and a ratio of craft workers to trainees, certified to the SSPC Interim Program.

### SSPC Hampton Roads Chapter Golf Tournament, Scholarship

The Hampton Roads Chapter of SSPC will be hosting its annual golf tournament at the Sewell Point Golf Course in

Hampton, VA, on October 30, 2008. Check in is at 10 a.m., lunch begins at 10:45, and the shotgun start begins at noon. To sign up, or for more information, contact any of the following committee members: Terry New at [terry@rapiddeployablesystems.com](mailto:terry@rapiddeployablesystems.com); Pam Winterling at [winterling@ppg.com](mailto:winterling@ppg.com); or Frank Saunders at [frank.saunders@sherwin.com](mailto:frank.saunders@sherwin.com).

In other Hampton Roads news, the Chapter has awarded four \$1,000 higher education scholarships. Applicants must be a member of the Hampton Roads Chapter or a family relation of a Chapter member. For more information on this fund, please contact Terry New at [terry@rapiddeployablesystems.com](mailto:terry@rapiddeployablesystems.com).

### SSPC Individual Member Update

Below is a list of 82 members who joined SSPC in June, 2008. If you have

*Continued*

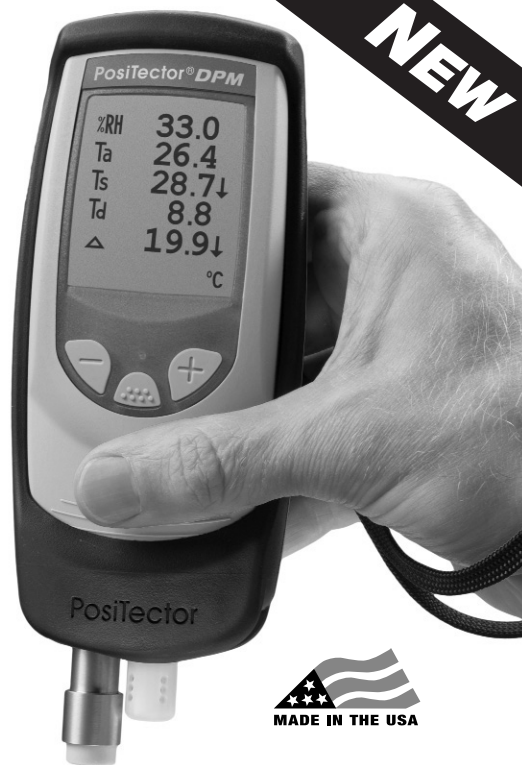
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## SSPC News

questions about joining, contact Terri McNeill at 877-281-7772 (U.S. and Canada) or 412-281-2331, ext. 2233.

- David Abrahamson San Diego CA
- Duane Alford Hartselle AL
- Mark A Allen Pembroke ON Canada
- Mike Altherr Decatur IL
- John Archuleta Gilroy CA
- Cheryl Babb Chesapeake VA
- Darrell Baker San Antonio TX
- Levi Baldwin APO AE
- Swapan Bandyopadhyay Martinez GA
- Robert Bowles Willington Quay Tyne & Wear UK
- Derek P. Breckenridge Hampton VA
- John Brosnahan El Cajon CA
- Ed Brunins Pittsburgh PA
- Tim Case Cottdale AL
- Robert Chandler Midlothian VA
- Jerry W. Clemmer Virginia Beach VA
- Jeff Colligan Pittsburgh PA
- Harry Crum Mansfield OH
- S. Daniel Day Danville CA
- Tom M. Dean Appleton WI
- Maria Victoria Dela Cruz Sucat Muntinlupa MM Philippines
- Brian Dokendorf Zephyrhills FL
- Zeid O. W. Elhawi Abu Dhabi UAE
- Pete Engstrom Rochester MN
- Robert Erikson Riviera Beach FL
- John Flugstad Cincinnati OH
- Anthony Fresolone Chipley FL
- Alain Gamache Baie-Comeau QC Canada
- Mariano Garcia San Antonio TX
- Steeven Gilbert Saint-Siméon QC Canada
- Paul Good New Berlin WI
- Jeffrey Greenwald P.E., CAE Alexandria VA
- Nathaniel G. Harris El Washington DC
- Wayne Hayworth Woodbridge ON Canada
- Jim Hester Carrollton TX
- Greg R. Howe Sulphur LA
- Beverly Hunter Melbourne FL
- Jeremy Johnson Mulberry FL

- Darcy S. Katzenback SK Canada
- Jymm Kennedy Prince George BC Canada
- Tom J. Kosakowski Milford NJ
- Jen Kramer La Mesa CA
- Paul A. Laramore Lenexa KS
- Demetre Laskaridis Baltimore MD
- Wayne Lomman Blackwood Creek TAS Australia
- Earl Long Jackson NC
- Paul Lou Phoenix AZ
- Thomas W. Melton Sarasota FL
- Jeffrey Milton Lynchburg VA
- Bryan Monteon Tucker GA
- Kevin Morero Spring Valley CA
- Philip L. Pesola Ocala FL
- Atousa Pourfard Bocheville QC Canada
- Michael Pszyk Fort Lauderdale FL
- Joyce Raffone Waterbury CT
- Jose Martin Reyes Muntinlupa Philippines
- Mark Richards Clarksville
- Marcelo Rufo São Paulo Brazil
- Aaron Rutledge Loveland CO
- James Sanders Chipley FL
- Jeffrey F. Schmarje West Seneca NY
- John C. Schuepbach San Antonio TX
- Rob B. Schwartz Waite Park MN
- John Shore Chatham Ontario Canada
- Jack Shumate Ventura CA
- Todd M. Smith Stockbridge GA
- Philippe R. Sokulski Houston TX
- Earle Stainton London ON Canada
- Malcolm Stephens Louisville KY
- Henry R. Stoner North Plainfield NJ
- James C. Suermann Hawthorne NY
- Kirk Thomas Brandon VT
- Joseph Todd Indianapolis IN
- Antonio M. Tolotto Genova Italy
- James Walsh Manassas Park VA
- David Webb Chipley FL
- Terry Wiseley Decatur IL
- Nick Wold Green Bay WI
- Stanley Wujek San Diego CA
- Frank Yancey Lake Charles LA
- Daniel E. Yell Wasilla AK
- Marlin Yoder Manassas VA

## FutureCoat Heads for Chicago

**F**utureCoat!, a technical conference exploring innovative methodologies and applications shaping the coatings industry, will be held October 14–16, 2008, at the Hyatt Regency McCormick Place in Chicago, IL. Sponsored by the Federation of Societies for Coatings Technology (FSCT) and the National Paint and Coatings Association (NPCA), the event in years past was presented as the conference component of FSCT's International Coatings Expo (ICE).

The conference will feature technical presentations, technology short courses, networking opportunities, tabletop exhibits, and student poster sessions highlighting new directions in coatings. The conference theme is "Globally Responsible Coatings—Getting There From Here."

John Mikan, president of Experien Health Sciences, Inc., will open the conference program on Wednesday, October 15, with the keynote address, "Is the Coatings Industry Heading Towards Increased Chemical Regulation Here in the U.S. in the Wake of EU's REACH Regulation?"

Also on October 15, Frederick H. Walker, Michael Cook, Gamini Vedage, and Rob Rasing (Air Products and Chemicals) will give the Mattiello Memorial Lecture, "Dimethyl Secondary Amine Chain Extenders: A Conceptual Approach to In Situ Generation of Advanced Epoxy Resins for Rapid Cure, Low-VOC Coatings."

Timothy Long of Virginia Tech will present the technical focus lecture on Thursday, October 16. It is titled "Nanostructured Block Copolymer Coatings with Inspiration from Biology: Taking Advantage of Hydrogen Bonding and Electrostatic Interactions."

To register for FutureCoat!, visit the FSCT website at [www.coatingstech.org](http://www.coatingstech.org) or call FSCT at 610-940-0777.

### Short Courses

#### Overcoming Challenges in Waterborne Coatings

This course will provide information on the challenges involved with formulating and applying waterborne coatings



*Courtesy of [www.choosechicago.com](http://www.choosechicago.com)*

and the tools to successfully formulate them. Attendees will learn how to select raw materials, with attention given to issues such as compatibility, stability, curing, and drying. Practical tips for dealing with coating defects will conclude the program.

### Green Materials and Coatings

This course is designed to provide a better understanding of various strategies and technologies developed by raw materials suppliers and coating manufacturers to respond to increasingly stringent environmental regulations while still providing products that also meet the need for high performance. In addition, a regulatory update will be presented.

### Emerging Technologies and Markets

This brief introduction to recent advances in coatings and polymers will discuss new methodologies and products that are becoming the norms of the industry. Topics discussed will include smart coatings, nanotechnology-based coatings, self-

assembly techniques and thin films, and antimicrobial coatings and coatings for medical applications. Jamil Baghdachi of Eastern Michigan University will lead the course.

### Military/Aerospace Coatings

The focus of this half-day program will be the military coatings market, with emphasis on the aerospace segment. The session will further explore emerging opportunities related to aging aircraft and homeland security. Robert Chiang of Hentzen Coatings, Inc., will present "Military Coatings and Needs."

### Novel Polymer Developments

New developments in polymer and crosslinker chemistry and their applications to coating science will be examined in this tutorial. Attendees will learn how these new developments might be applied to their own work. A basic knowledge of polymer chemistry is suggested.

*Continued*

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### Conference Papers

Among the papers addressing industrial coatings are the following, which are divided into five conference tracks.

#### Track 1: Corrosion

- The Role of Thermoplastic Coatings for Metal Protection and Corrosion Prevention—Patrick Benson, Plascoat Systems Ltd.
- Eco-friendly Low-Density Polyethylene Thermally Sprayable Coating for Corrosion Protection—Dhirendra Kumar, Naval Materials Research Laboratory, India
- Monitoring of an Army Vehicle Coating Under Prohesion Exposure by Embedded Sensors—Kerry Allahar, Vinod Upadhyay, and Gordon Bierwagen, North Dakota State University
- Waterborne Binder for Primer Systems: The Key to Versatility and High Performance—Lorenzo Petway, Huntsman Corporation
- Hybrid Pigments for Corrosion Inhibitors—Victoria Johnston Gelling, Christopher Vetter, and Xiaoning Qi, North Dakota State University
- Sol-gel Hybrid Coatings for Corrosion Protection of Al20204—Duhua Wang and Gordon Bierwagen, North Dakota State University
- Hybrid Sol-Gel Corrosion Inhibitors: A Novel Approach to Corrosion Inhibitors for Coatings—Andrew Balgeman, HALOX
- Hybrid Organic/Inorganic Coatings Produced Using a Dual-Cure Mechanism—Bret Chisholm, David Christianson, and Crystal Rafferty, North Dakota State University
- Tralopyril, a Metal-free Marine Antifouling Agent Designed for the Environment—Tony Kempen, Janssen Pharmaceutica N.V., Belgium
- Evaluating Fouling-Resistance and Fouling Release Performance of Smart Polyurethane Surfaces: An Outlook for Efficient and Environmentally Benign Marine Coatings—Ravi Joshi, Achin

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Goel, Vijay Mannari, John Finlay, Maureen Callow and James Callow, Eastern Michigan University

- Silicone Resins Containing Polystyrene and Poly(t-butyl acrylate) Grafts as Fouling Release Coatings for Marine Applications—Mohammed Nasrullah and Dean Webster, North Dakota State University

### Track 2: Waterborne

- New Advances in Waterborne Fluoropolymer Technology: A Water-based Dispersion for Industrial Coatings Formulations—Bob Parker, AGC Chemicals Americas
- Two-Component Waterborne Polyurethane Coatings: High Performance Crosslinkers Meet the Needs of Demanding Applications—Myron Shaffer, Aaron Lockhart, Ray Stewart, Amy Wylie, and Kathy Allen, Bayer MaterialScience, LLC
- Renewable, Low-VOC and Zero-VOC Concrete Coatings—Mike Praw, Yasmin Sayed-Sweet, and Kevin Kyaw, Alberdingk-Boley, Inc
- Formulating 50 VOC Gloss Floor Paints—Greg Monaghan, Rohm and Haas Co.

### Track 3: Green Chemistry

- Literature Review of VOC Reduction in Paints and Coatings—Aaron Strepka, Chicago Society for Coatings Technology Technical Committee
- Low-VOC Coating: Technology and Formulating for Maintaining Key Performance Properties—Linda Adamson, Rohm and Haas Company
- Natural Oil Polyols for Waterborne Polyurethane Dispersions—John Argyropoulos, Debkumar Bhattacharjee, Bedri Erdem, and Paul Foley, The Dow Chemical Company

### Track 4: Additives

- Antimicrobial Surfactants and Surface Modifiers for Formulating

Coatings—John Texter, Zhiming Qiu, Feng Yan, Paul Ziemer, Rola Amad, Dustin England, Hong Gu, Daniel Clemans, and Stephen Rhoades, Eastern Michigan University

- Industrial Hygiene: The Keystone for Robust Antimicrobial Protection—Ioana Annis and Jon Raymond, Dow Biocides
- What Exactly are “Green Antimicrobials”?—Rodney Rees, Thor Specialties, Inc.
- Designing Liquid Rheological Additives for Industrial Coatings—Carmen Rodriguez, William Reynolds, and Richard Geurtsen, Elementis Specialties
- NCO-Functionalized Nanoclays for Polyurethane Composite Coatings—Tinh Nguyen, Bastien Pellegrin, Cyril Clerici, Xiaohong Gu, and Joannie Chin, NIST

### Track 5:

#### Characterization/Nanotechnology

- Novel, Environmentally-Friendly Antimicrobial Coatings Derived from Biocide-Functional Acrylic Polyols and Isocyanates—Alex Kugel, Laura Jarabek, Justin Daniels, Lyndsi Vanderwal, Scott Ebert, Michael Jepperson, Shane Stafslie, Robert Pieper, Dean Webster, and Bret Chisholm, North Dakota State University
- Utilization of Specific Interactions to Enhance the Mechanical Properties of Polysiloxane Coatings—Partha Majumdar, Bret Mayo, Jongsoo Kim, Christy Gallagher-Lein, Elizabeth Lee, Nathan Gubbins, and Bret Chisholm, North Dakota State University
- Linking Accelerating Laboratory Test with Outdoor Performance Results for a Model Epoxy Coating System—Xiaohong Gu, Debbie Stanley, Walter Byrd, Brian Dickens, Tinh Nguyen and Jonathan Martin, NIST, and Iliana Vaca-Trigo and William Meeker, Iowa State University

Send news about your association to Karen Kapsanis, Editor, JPCL, [kkapsanis@protectivecoatings.com](mailto:kkapsanis@protectivecoatings.com)

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## Coming Up

### Meetings

**September 23–26 SMM 2008:**  
Hamburg, Germany,  
[www.hamburg-messe.de/smm](http://www.hamburg-messe.de/smm)

**September 24–25 JPCL-PCE Marine**  
Coatings Conference, Hamburg,  
Germany, [www.hamburgmesse.de/smm](http://www.hamburgmesse.de/smm)

**September 28–October 1 ASTM**  
Meeting, E06 Performance of Buildings,  
Miami Beach, FL, U.S., [astm.org](http://astm.org)

**September 29–October 1**  
Polyurethanes 2008 Technical  
Conference, San Antonio, TX, U.S.,  
[www.polyurethane.org](http://www.polyurethane.org)

**September 30–October 2 Eurocoat**  
2008, Lyon, France,  
[www.eurocoat-expo.com](http://www.eurocoat-expo.com)

**October 5–8 PCI 2008 Convention &**  
Exhibition, Orlando, FL, U.S.,  
[www.powdercoating.org](http://www.powdercoating.org)

**October 12–15 IBTTA 2008 Maintenance**  
Committee Fall Conference, New  
Orleans, LA, U.S., [www.ibtta.org](http://www.ibtta.org)

**October 14–16 Futurecoat!,** Chicago, IL,  
U.S., [www.coatingtech.org](http://www.coatingtech.org)

**October 16–20 AASHTO Annual**  
Meeting, Hartford, CT, U.S.,  
[www.aashto.org](http://www.aashto.org)

**October 18–22 WEFTEC.08 81st**  
Annual Technical Exhibition &  
Conference, Chicago, IL, U.S.,  
[www.weftec.org](http://www.weftec.org)

### Courses

**October 6–10 SSPC C1 Protective**  
Coating Fundamentals, Annapolis  
Junction, MD, U.S., [www.sspc.org](http://www.sspc.org)

**October 6–10 C2 SSPC Specifying and**  
Project Management, Kent, WA, U.S.,  
[www.sspc.org](http://www.sspc.org)

**October 7 SSPC Online eCourses:** C1  
Protective Coating Fundamentals; C2  
Specifying & Project Management,  
[www.sspc.org](http://www.sspc.org)

**October 7–10 PDA Applicator Spray**  
Course, Houston, TX, U.S.,  
[www.pda-online.org](http://www.pda-online.org)

**October 11 SSPC PCS Protective**  
Coating Specialist, Kent, WA, U.S.,  
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# TMI Wins Power Plant Painting Project

By Brian Churray, PaintSquare

**T**MI Coatings, Inc. (St. Paul, MN) was awarded a contract of \$370,000 by the Nebraska Public Power District to clean and recoat the interior and exterior surfaces of two 54-foot-high by 30-foot-diameter cone-shaped dewatering bins and associated structural steel at Sheldon Station, a two-unit, coal-fired power plant and combustion turbine. The existing steel, which will be abrasive blast cleaned to a Near-White finish (SSPC-SP 10), is coated with lead-bearing paint, necessitating containment. The interior surfaces of the dewatering bins, including shell walls, overflow troughs, and various appurtenances, will be lined with a thick-film coating system, such as elastomeric urethane, ultra-high-build epoxy, or polyurea. The exterior bin surfaces and structural supports, including shell walls, handrails, platform assemblies, and piping, will be coated with an organic zinc-rich primer, an epoxy intermediate, and a urethane finish.

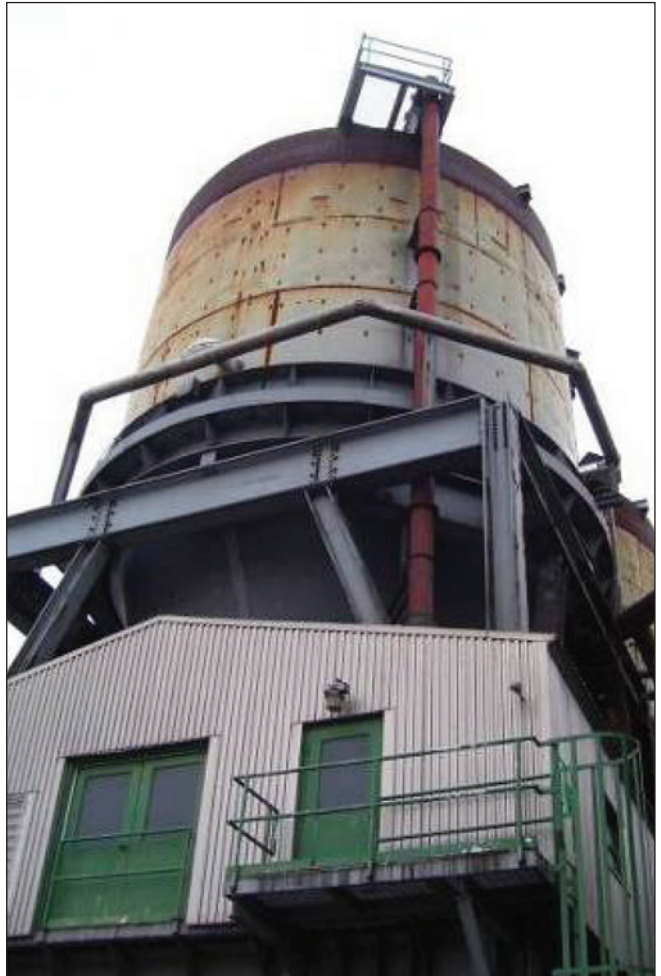


Photo courtesy of Nebraska Public Power District

### P.S. Bruckel Awarded Bridge Coating Contract

P.S. Bruckel, Inc. (Avon, NY) was awarded a contract of \$380,000 by Lancaster County, PA, to perform coatings application and minor repair work on a 2-span, 256-foot-long steel truss bridge over the Conestoga River. The steel will be pressure-washed and overcoated with a calcium sulfonate alkyd system. The contract includes erecting containment, as the existing coatings contain lead.

### Kissimmee Utility Authority Awards Condenser Coating Contract

The Kissimmee Utility Authority let a contract of \$113,019 to Motta Painting Company (Venice, FL) to abrasive blast-clean and recoat two condenser units at the Cane

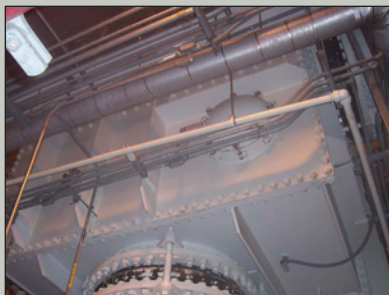


Photo courtesy of KUA

Island Power Park. The units, which include carbon steel and alloys, will

be abrasive blast-cleaned to the equivalent of a White Metal finish (SSPC-SP 5) and coated with a 100%-solids epoxy system, including trowel-applied buildcoats, to achieve a total dry film thickness of approximately 200 mils.

### Jeffco Wins Digester Coating Contract

Jeffco Painting & Coating Inc. (Vallejo, CA) secured a contract of \$295,000 from the City of San Leandro, CA, to perform coatings application on interior surfaces of a water pollution control plant digester, including steel framing, steel roof plates, piping, manways, steel skirting, bracing, the center column, the interiors of the water trap and nozzles, and select concrete surfaces. The digester surfaces will be ultra-high-pressure waterjetted and/or abrasive blast-cleaned and relined with a 100%-solids

*Continued*

## Project Preview

elastomeric urethane system. The contract requires the use of solid desiccant dehumidification equipment to facilitate proper curing.

### J & W of NC Secures Elevated Tank Job

J & W of North Carolina, Inc. (Vanceboro, NC) won a contract of \$242,000 from the Maryland Environmental Service to repair and recoat a 500,000-gallon welded-steel elevated water storage tank. The contract includes recoating the interior and exterior of the tank, as well as concrete foundation and valve vault surfaces. The interior wet and valve vault surfaces will be abrasive blast-cleaned to a White Metal finish (SSPC-SP 5) and lined with a 3-coat epoxy system; the exterior surfaces will be pressure-washed at 4,500 psi, spot power-tool cleaned (SSPC-SP 3), and coated with an epoxy mastic spot-primer, an epoxy

full-primer, an acrylic intermediate, and an acrylic finish; and the concrete foundation will be coated with a 2-coat epoxy system. The contract includes containment of the existing coatings, which contain trace amounts of lead.

### Florida DEP Awards Lighthouse Restoration Project



*Photo courtesy of Florida Division of Recreation and Parks*

The Florida Department of Environment Protection let a contract

of \$112,900 to Worth Contracting & Development, Inc. (Live Oak, FL) to perform paint restoration services on the Cape Florida Lighthouse in Bill Baggs State Park. The project involves cleaning and recoating interior and exterior surfaces on the 152-year-old, 95-foot-tall structure. The project includes applying a whitewash system to masonry surfaces and an alkyd system to ferrous metal surfaces.

### North Dakota DOT Lets Bridge Painting Project

The North Dakota Department of Transportation awarded a contract of \$773,338 to Pacific Painting Company, Inc. (Munster, IN) to recoat structural steel surfaces on two sets of dual bridges in Wahpeton. The contract, which requires SSPC-QP 1 and QP 2 certification, involves recoating a total of approximately 66,987 square feet of steel on

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## Project Preview

two 355-foot-long bridges, one 161-foot-long bridge, and one 155-foot-long bridge. The steel will be abrasive blast-cleaned to a Commercial finish (SSPC-SP 6) using a lead-stabilizing abrasive additive, and recoated with a zinc-rich epoxy primer, a polyamide epoxy intermediate, and an aliphatic polyurethane finish. The contract includes erecting containment to control the emission of the existing lead-based coatings.

### American Suncraft Secures Tank Painting Project

American Suncraft Construction Company was awarded a contract of \$330,000 by Montgomery County, OH, to repair and recoat a 500,000-gallon spheroidal elevated water storage tank. The contract, which required prequalification or SSPC-QP 2 certification, involves abrasive blast-cleaning and recoating the interior and exterior surfaces of the tank. The existing coatings, which were applied in 1985, contain lead, necessitating containment according to SSPC-Guide 6 and hazardous waste disposal according to SSPC-Guide 7. The surface preparation also includes using a lead-stabilizing abrasive additive or pretreatment. The interior surfaces will be lined with a zinc-epoxy system and the exterior surfaces will be coated with a zinc-epoxy-fluoropolymer polyurethane system.

### Amstar Wins

#### Two Vermont Bridge Painting Bids

The Vermont Agency of Transportation let two contracts to Amstar of Western New York, Inc. (Cheektowaga, NY) to perform bridge painting services. Both contracts include lead abatement, surface preparation, and a three-coat zinc-rich coating system application. Amstar was awarded a contract of \$1,333,000 to recoat a total of approximately 384 tons of steel on three bridges and a contract of \$548,000 to recoat a total of approximately 257 tons of steel on three additional bridges.

## Quick Hits

**L**anford Brothers Company, Inc. (Roanoke, VA) was awarded a contract of \$381,579.50 by the Virginia Department of Transportation to metallize 1,255 square yards of bridge substructure surfaces for cathodic protection purposes.

**A**bhe & Svoboda, Inc. (Prior Lake, MN) was awarded a contract of \$23,310 by Oakland County, MI, to clean and recoat a 400-foot-tall radio tower according to FAA Regulations.

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**T**his article reports on a sampling of new coatings for concrete in industrial settings or for bridge and highway applications. The information is based on responses to a survey e-mailed in July to all coating companies known to *JPCL*. The article describes products from companies that responded by the deadline with information about coating or concrete repair materials introduced or significantly changed in the past year.

We organized the article into five sections: flooring, exterior coatings, linings, repair products, and specialty products such as sealers and anti-graffiti coatings. Some products may fit into more than one category but will appear only once.

All companies are welcome to continue to send literature on new products to [kkapsanis@protectivecoatings.com](mailto:kkapsanis@protectivecoatings.com) for news in *JPCL* and on our website, [www.paintsquare.com](http://www.paintsquare.com).



*Courtesy of Crossfield Products Corp.*

## ***New Coatings for Concrete***

*By the JPCL staff*

### **Flooring**

The Dex-O-Tex® Division of **Crossfield Products Corp.** (Rancho Dominguez, CA) has introduced its Vapor-Control Primer 200, designed to reduce or eliminate the problems created by excess vapor in concrete, which causes failures in many types of finished flooring (vinyl sheet goods, wood, terrazzo, polymer flooring, etc). Vapor-Control 200 is a two-part epoxy that is applied over prepared concrete and is designed to form a strong bond, even in the presence of moisture vapor emissivity. This novel epoxy curing system will

even cure under water, according to the company. It is typically applied in two applications of 7 mils each. [www.crossfieldproducts.com](http://www.crossfieldproducts.com)

FCS Clear is a new two-part, low VOC epoxy industrial maintenance concrete coating from **Ellis Paint Company** (Los Angeles, CA). The self-leveling epoxy, formulated to yield a tough abrasion- and chemical-resistant floor surface, can be applied by squeegee, roller, trowel, spray, or brush. Recommended applications include fac-

tory aisles; electronic, chemical, and pharmaceutical plants; food and beverage facilities; and aircraft hangars.

The product is low in odor, enabling application during working hours to prevent downtime. According to the company, FCS Clear is more durable than concrete, withstanding loads and impact that would damage uncoated concrete floors. [www.ellispaint.com](http://www.ellispaint.com)

**Epmar Corporation** (Whittier, CA) has introduced STA-CRETE® 3500, a new 100% solids epoxy that replaces its

old color formulations, STA-CRETE 2900 and 1202. The new formula is USDA food acceptable for food processing facilities and is available in various cure speeds.

STA-CRETE 3500, formulated using new technology resins and hardeners, offers the following increased benefits and properties, the company

says: chemical resistance, higher gloss, self-leveling, zero VOCs, low viscosity, and the ability to make special colors.

Recommended applications include concrete floors subject to continuous foot traffic, showroom floors, warehouse floors, food and chemical processing facilities, hospitals, kitchens, breweries, laboratories, gymnasiums, and other applications that require a high-gloss, resilient floor finish. The low viscosity mixture allows easy aggregate filling for slurry applications or aggregate-broadcast systems for increased compressive strength and high impact service, the company says. [www.epmar.com](http://www.epmar.com)

The **Key Resin Company** (Batavia, OH) has introduced Key 635 MVT (Moisture Vapor Treatment), a two-component, modified epoxy system formulated to seal concrete and reduce moisture vapor transmission prior to applying finished flooring. The product is designed as a negative-side moisture vapor retarder to reduce moisture vapor transmission through concrete; it can also be used as a primer for fast recoat under the company's flooring systems.

According to the company, the coating is resistant to highly alkaline condi-



*Courtesy of Epmar Corporation*

tions; bonds well to properly prepared concrete; and can be rapidly surfaced with a variety of finished flooring materials. [www.keyresin.com](http://www.keyresin.com)

**Liquid Concrete, Inc.** in Seattle, WA, has introduced FloorPaintHD, a waterborne epoxy coating with filler for high wear and slip resistance. The product is designed to fill porous and pitted concrete in one application by roller. According to the company, it rolls on like paint, and wears like an overlay. Designed for pedestrian and vehicular traffic, the product can be applied over wet, cured, or green concrete in one pass, says the company. [www.liquidconcrete.com](http://www.liquidconcrete.com)

**Navcor** in Clearwater, FL, now offers its Clearwater Finish. The new high-performance, waterborne, two-part aliphatic polyurethane coating is designed for industrial and commercial concrete. Intended uses include flooring, airplane hangars, and decorative concrete. It is also used as a fast application sealer for pavers. It can be used over damp surfaces, the company says. Compliant with California's low VOC regulations, the coating is designed to have excellent physical properties, UV stability, abrasion resistance, ultra-low odor, and high

chemical resistance, the company says. With a three-hour pot life, the coating can be applied in a single high-build coat. The product turns from white to clear to show coverage when applying, and it does not remain white from exposure to water. [www.navcor.us](http://www.navcor.us)



*Courtesy of PolyMax/Milamar Coatings LLC*

PolyMax 4000EC Epoxy-Urethane Coating System is a breathable floor coating with resistance to chemicals such as gasoline, hydraulic fluids, and Skydrol, according to **PolyMax/Milamar Coatings LLC** in Oklahoma City, OK. The product was designed to be non-porous, easy to clean and maintain, and resistant to blistering and wear as well as to chemicals. It has a VOC content below 85 g/L, virtually no odor during installation, and a high-gloss, UV-stable finish, the company says. [www.polymax-us.com](http://www.polymax-us.com)

**PPG Protective and Marine Coatings**, based in Pittsburgh, PA, has introduced its line of MegaSeal Flooring Systems, developed for food and beverage plants, manufacturing and chemical facilities, airplane hangars, warehouses, and commercial facilities such as malls.

The SL 99-126 Series is a 100% solids, two-component, self-leveling, epoxy system that provides a durable, seamless, high-gloss surface. It can also be applied with an anti-slip texture or decorative flakes and quartz. A standard and fast-set cure is available. It

*Continued*

comes in a variety of colors. The SL Tint 99-6650 Series is a tintable version of the company's 100% solids, two-component, high-performance self-leveling system.

With film build up to 150 mils, HD5L 99-120 Series is a three-component, 100% solids, heavy-duty, self-leveling system suitable for food and beverage processing, laboratories, water/wastewater facilities, and heavy industrial warehouses, the company says. And for heavy pedestrian traffic, the single-component epoxy, NSP 99-6511 Series, can be applied.

For new and weathered concrete that is porous, HSPC 99-127 Series, a 100% solids, low viscosity epoxy primer, penetrates and seals concrete, enhances the adhesion of a flooring system, and reduces pinholes and bubbling.

Designed to adhere to acid-etched concrete, WBPC 99-128 Series—Clear is a waterborne epoxy primer with low odor primer and application up to 4 mils. [www.ppgpmc.com](http://www.ppgpmc.com)



*Courtesy of Rhino Industrial™*

**Rhino Industrial™**, a business unit of Rhino Linings Corporation, has introduced a hybrid aliphatic polyurea coating with a rapid cure capability and return-to-service time of one day. The Fastfloor™ floor coating system was developed for commercial and industrial flooring. It can be applied by hand roller, brush, or squeegee. Properties include resistance to abrasion, impact, chemicals, and UV light. The coating has no VOCs, the company says. Appropriate applications include warehouses, airplane hangars and laboratories. [www.rhino linings.com](http://www.rhino linings.com)

**Sherwin-Williams Protective and Marine Coatings** has introduced Acrolon 100 Acrylic Polyurethane for protecting floors and other surfaces in USDA-inspected facilities as well as a variety of steel exteriors. With a VOC level below 100 g/L and no hazardous air pollutants, the coating can provide long-term performance comparable to solvent-borne urethanes, says the company. It is designed to withstand a range of chemical, weather, and mechanical conditions. [www.sherwin.com/im](http://www.sherwin.com/im)

**Solid Rock Enterprises** has added to its line of Speedcove precast cove base systems for epoxy and decora-

tive flooring. New from the El Dorado, CA, company are an eight-inch tall cove base with matching corners; a one-inch radius cove; and bullnose corners for four-inch, six-inch, and eight-inch systems. [www.speedcove.com](http://www.speedcove.com)

Superior VRC-158-1 is a two-component, 100% solids epoxy primer or base coat formulated to reduce moisture vapor transmission from concrete floors, according to manufacturer **Superior Epoxies & Coatings, Inc.** in Decatur, GA. The base coat prevents blistering of subsequently applied floor coatings, in particular, 100% solids products. The low odor base coat is not pH sensitive and can be applied to seven-day-old concrete surfaces, the company says. [www.superiorepoxies.com](http://www.superiorepoxies.com)

### Exterior Coatings

**Enviroline Group** has introduced its first exclusively exterior coating, Envirothane® 550, to complement its line of interior high-performance coatings and linings. The two-component, high-gloss urethane coating is designed for industrial and commercial applications requiring high gloss and color retention as well as superior resistance to UV, chemicals, abrasion, and moisture. The coating comes in 22 standard colors, including 5 safety colors, and it has

color-matching capability. [www.enviroline-group.com](http://www.enviroline-group.com)

**Green Earth Nano Science, Inc.** (Toronto, Canada) has introduced its newly improved, transparent self-cleaning coatings for exterior applications, distributed globally under the brand SolarStucco™. The coatings, described by the company as easy-to-apply and environmentally friendly, use natural photocata-



*Courtesy of Enviroline Group*

lyst and nanotechnology. In the presence of light, the photocatalyst will decompose the organic pollutants. Without the adhesion of the organic pollutant, the inorganic pollutant remaining on the surface can be easily swept away by rain. The coatings are effective against organic-based dirt, mold, fungus, and moss, and protect substrates against UV discoloration, the company says.

The company notes that, in practice, surface cleaning of

**Continued**

building materials like concrete, stucco, tiles, facades, aluminum or plastic panels, and glass panes causes high consumption of energy and chemical detergents and, consequently, high costs. According to the company, SolarStucco



*Courtesy of Green Earth Nano Science, Inc.*

self-cleaning technology protects exterior building envelopes, concrete bridges, and other concrete structures against those problems and keeps coated buildings' new (or restored) look for many years. Consequently, less water and chemicals are used, less impact on the environment is achieved, and building maintenance costs are reduced. [www.gensnano.com](http://www.gensnano.com)

**International Paint LLC** (Houston, TX), an Akzo Nobel company, has introduced Intergard 1033, a low-VOC chalk white epoxy finish developed specifically to help maintain a clean white appearance on steel or concrete surfaces within industrial environments.

Acknowledging that a white appearance is difficult to maintain on tank exteriors, piping, and other structural steel or concrete surfaces, the company says that the new epoxy technology used in Intergard 1033 has unique self-cleaning properties that prevent the coating from yellowing upon exposure to sunlight.



*Courtesy of International Paint LLC*

This durable, two-component, high-solids epoxy finish is designed for use in new construction or maintenance and repair projects within moderately corrosive environments. The coating's superior abrasion-resistant properties and self-cleaning capabilities also help significantly reduce maintenance costs while extending the structure's lifecycle, the company says.

The coating can be brushed, rolled, or spray-applied directly onto concrete, or over primed steel. [www.international-paint.com](http://www.international-paint.com)

## Linings

New from **DeWitt Products Co.** (Detroit, MI), the D-MAX Seamless Membrane® System (DSMS) is a product developed

for the waterproofing, corrosion protection, and roofing industries. Heavy-duty applications include secondary containment and bridge decks, the company says. DSMS is a cold-spray-applied, seamless membrane system that bonds to most surfaces. It contains no VOCs and does not require torches or kettles associated with traditional membranes. According to the company, features of the membrane system include superior elongation and recovery; cold spray application and cold cure; and a Class "A" fire rating. [www.dewittproducts.com](http://www.dewittproducts.com)

**Enviroline Group's** potable water coating, Enviroline 230

NSF, is an ultra-low VOC, green coating developed to protect concrete or steel potable water tank interiors and pipes from corrosion or deterioration. Applied in a single, thick-film and fast-cure coat, the product provides excellent adhesion as well as resistance to abrasion and impact,

the Pompano Beach, FL-based company says. The coating is certified to NSF/ANSI Standard 61 for potable water contact, including commercial hot water up to 180 F (82 C) in 500-gallon tanks or larger and 10-inch diameter pipes or larger. Enviroline 230 also meets AWWA Standard C210-03 performance requirements.

Enviroline 375UHS is a thin-film, low VOC (95 g/L), fast-cure epoxy for the oil and gas and chemical processing industries, the company says. The

high-performance internal lining is intended for storage tanks, process vessels, pipelines and concrete containment structures requiring protection from aromatic and aliphatic hydrocarbons, crude oil, fuel oil, gasoline, fuel grade ethanol, ethanol gasoline and other refined petroleum products and chemicals. The lining can be applied up to a dry film thickness of 20 mils. [www.enviroline.com](http://www.enviroline.com)

Futura-thane 5061PW, a 100% solids, fast-set, two-component, high-performance polyurea hybrid elastomer for use as a lining in potable water tanks and pipe, has been introduced by St. Louis, MO-based **ITW Futura Coatings**. The product provides a tough, abrasion-resistant, elastomeric lining for steel and concrete tanks, the company says. The lining, which requires plural-component, heated application equipment, is



*Courtesy of Enviroline Group*

certified per NSF/ANSI Standard 61. The zero-VOC coating has good resistance to thermal shock, unlimited film build, and 160% elongation to allow bridging of normal shrinkage cracks in concrete, the company says.

The product is recommended for use as a lining system for steel or concrete potable water tanks (greater than 3,000 gallons) and pipes (greater than 54 in. diameter). [www.futuracoatings.com](http://www.futuracoatings.com)

The new Elasti-Liner IV from **KCC Corrosion Control** (Houston, TX) is a containment lining that the company describes as low cost and capable of bridging moving cracks in concrete of up to 40 mils (3.2 mm) in width. The product is 100% solids and is applied by spray, roller, or brush.

The liner is applied with what the company calls “no-joint construction”—it is applied directly over old cracks, moving or not, and over expansion joints.

The company describes the lining as highly resistant to a variety of chemicals, UV light, foot traffic, and high temperature. The liner is also fire retardant—self-extinguishing when the source of flame is removed—the company says. [www.kcccorrosioncontrol.com](http://www.kcccorrosioncontrol.com)

Polyeuro® 5502-NSF is ANSI/NSF 61-approved for contact with potable water, says **Polycoat Products**, a Santa Fe Springs, CA-based company. Fast-setting, rapid curing, 100% solids, and flexible, the aromatic, two-component spray polyurea was developed for suitably prepared concrete and metal surfaces. It was designed with a fast gel time for application down to -20 F. It may be applied in single or multiple applications without appreciable sagging. It is said to be relatively insensitive to moisture and temperature, allowing application in most temperatures. The product has a tack-free time of less than 30 seconds and exhibits 450% elongation upon curing with 50 Shore D hardness. [www.polycoatusa.com](http://www.polycoatusa.com)

**Sherwin-Williams Protective and Marine Coatings** (Cleveland, OH) has introduced Express Cote HCR, a chemical-resistant, glass-flake-filled epoxy novolac lining designed to protect concrete and steel from chemicals and solvents at ambient and elevated temperatures. Its intended applications include the petrochemical, wastewater, power generation, and marine markets, the company says. The product offers a rapid return to service, in as little as 24 hours, and also offers a walk-on condition within five hours when applied at 77 F and 50% RH. A 100% solids lining, the epoxy has no VOCs



*Courtesy of Sprayroq*

and can be applied up to 50 mils in one coat, the company says. [www.sherwin.com/im](http://www.sherwin.com/im)

Sprayshield Green from **Sprayroq** (Birmingham, AL) is a new wastewater treatment coating with 35% of its petroleum-based components replaced by environmentally friendly, renewable source material, the manufacturer says. The flexible, 100% solids polyurethane coating is designed to resist chemicals on concrete, steel, and other surfaces in municipal, industrial, agricultural, and maritime applications. It cures quickly, the company says, allowing a fast return to service. [www.sprayroq.com](http://www.sprayroq.com)

**Xiom** in West Babylon, NY, has added a liquid coating developed to make its powder coatings adhere to

concrete. The company has also added several products to its line of powder coatings, which have been formulated for on-site application with a specially designed spray unit. The liquid coating is X 40, a two-pack epoxy concrete sealer. Four new powder coatings can be used in industrial or other aggressive settings. X 300 is a polyvinylidene fluoride with excellent chemical resistance, the company says. X 512 T is a fiber-reinforced thermoplastic coating with heat resistance from 0 F to 140 F and abrasion resistance. Capable of being applied at thick builds (15 mils), the product is suitable for walkways as well as swimming pools. The company describes its X 570 as an all-purpose functional thermoplastic coating with a heat resistance of -40 F to 180 F. And X 575 is a high-density polyethylene clear coat that can be used to topcoat thermoplastic powders. The product improves the finish hardness, surface smoothness, and chemical resistance of thermoplastic lines, and provides good UV resistance, the company says. [www.xiom-corp.com](http://www.xiom-corp.com)

### Repair Products

Miami, FL-based **Belzona** has just released new products—Belzona 4231 and Belzona 4251—that are part of a system of polymeric materials designed to bond to concrete while exceeding the original concrete's strength. Belzona 4231 and 4251 are rapid-curing systems for repairing and resurfacing concrete and stonework damaged by impact, vibration, chemicals, and environmental attack. These products allow time-pressing applications to be put back into service with minimum down time, the company says. [www.belzona.com](http://www.belzona.com)



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*Photos courtesy of Belzona*

Franklin Park, IL-based **International Coatings Inc.** has announced the release of its new concrete patching material, **ICO Gel**, a one-step system primarily designed for vertical applications. The company describes **ICO Gel** as a 100% solids, no odor, three-part epoxy that can fill holes up to 1 in. thick on vertical or overhead surfaces without shrinking or sagging. It is designed to adhere well to damp as well as dry concrete and masonry surfaces. It is particularly suited to fill cracks and crevices on walls and for vertical and overhead repairs where constant dampness is present, like bridges, dams and sewers, the company adds.

For faster cure times, the product is available in **ICO Gel MC** (medium cure) and **ICO Gel FC** (fast cure). For areas that need greater thicknesses, it is available in a **XT** (extra thick) version. [www.internationalcoatings.com](http://www.internationalcoatings.com)

**Liquid Concrete, Inc.** in Seattle, WA, has introduced two new products: **BlockFill PLUS** and **PK3**.

**BlockFill PLUS** concrete masonry unit treatment is intended for industrial and commercial painters, as well as for concrete restoration professionals. A trowel-applied waterborne epoxy designed for patching or resurfacing vertical or horizontal surfaces, the product can be

left as finished, topcoated, painted, or sealed. It can be applied indoors or out, the company says. The product has no VOCs, very low odor, and cold water cleanup.

**PK3** is a self-leveling, breathable, waterborne epoxy resurfacer, developed for high build, extreme high wear,



*Courtesy of International Coatings Inc.*

and scratch resistance. A finished industrial or decorative overlay, the product resists moisture vapor transmission without prior installation of a barrier coat. The product can be applied in areas subject to high levels of moisture vapor as well as to wet, green, or cured concrete surfaces inside or outside, the company says. PK3 is intended for a variety of applications: breathable resurfacer, underlayment, adhesive, patching compound, and seamless, finished overlay. [www.liquidconcrete.com](http://www.liquidconcrete.com)

For repairing concrete or enhancing a flooring system, **PPG Protective and Marine Coatings** has introduced several products from its Megaseal Flooring Systems line. Its CF 99-114 Series, a 100% solids epoxy filler, is designed to provide a smooth surface on concrete that has voids, holes, and surface discontinuities up to 1 in. across. CR 99-965 Series is an acrylic-modified cement developed for repairing deteriorated concrete or repitching floors for proper drainage. QTZ 99-840 Series—Quartz Additive and FLK 99-841 Series—Flake additive can be broadcast into self-leveling coatings to enhance the aesthetics of floors. [www.ppgpmc.com](http://www.ppgpmc.com)

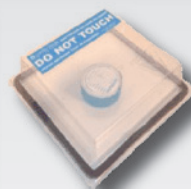
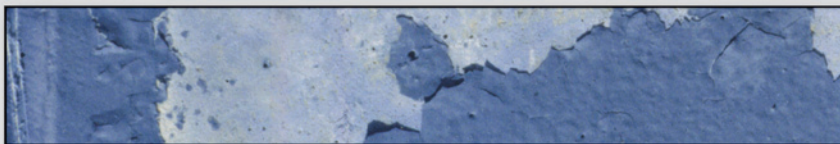


*Courtesy of Super-Krete International, Inc.*

S-300 Super-Quik™ is a two-component, fast-setting concrete repair mixture from **Super-Krete® International, Inc.** in El Cajon, CA. Said to set in 5 minutes and to withstand heavy vehicle traffic in as little as 15 minutes, the product can withstand adverse conditions such as rain, freezing temperatures, and heat. It

*Continued*

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will also set up when in contact with, or submerged in, water, the company says. The product is recommended for a range of uses, from sidewalks and highways to sewage treatment plants and reservoirs. It can be coated after water blasting, the company says. [www.super-krete.com](http://www.super-krete.com)

**Thin Film Technology Inc.** (Houston, TX) has introduced a synthetic tape, BiO-WRAP 999, designed to seal joints and cracks in concrete. The three-layer tape consists of a polyolefin base, a central woven mesh, and a polyurethane surface membrane that can repair cracks on concrete even on underwater structures, the company says. Creating a permanent, paintable repair, the system can expand and contract as the joint or crack moves. It resists a range of aqueous alkalis, acids, and oxidizers; temperatures from -22 F to +190 F; ozone; and UV light. [www.thinfilmtech.net](http://www.thinfilmtech.net)

### Specialty Products

**BioCoatings LLC** (Fort Lauderdale, FL) has unveiled a new line of VOC-compliant concrete coating products designed to meet a variety of masonry needs for green building construction and industrial applications. The product line includes Tarkseal, a high-gloss premium clear acrylic coating/dust-proofer, Silox S, a solvent-borne alkylated alkoxy siloxane, and Silox SAC, a solvent sealer combination of siloxane and acrylic.

BioCoatings Tarkseal is designed for use as a cure on freshly placed concrete and as a sealer for aged, finished concrete. It repels oil, grease, and water. Other suggested applications include coatings for wood, brick, mortar, tile, grout, and stone walkways. It contains less than 100 grams/liter of VOCs and meets all current and proposed state and federal VOC regulations, according to the company.

BioCoatings Silox products penetrate and chemically bond with surfaces of above-grade vertical and horizontal substrates. The products are engineered to seal out moisture, while remaining highly vapor-permeable, by forming a hydrophobic barrier beneath the surfaces of concrete, block, and other masonry surfaces. The products' benefits include enhanced resistance to efflorescence, mildew growth, corrosion, scaling, spalling, surface erosion, cracking, and salt. According to the company, the products will not produce a surface film or impair the natural breathing characteristics of treated surfaces and will not darken most color-sensitive surfaces.

BioCoatings VOC-compliant Silox S is designed to form a hydrophobic barrier beneath the surface of cement-based materials. The product is suitable for aged concrete, plaster, and calcium silicate brick, including highly alkaline surfaces. Silox S can also be used as a primer for silicone-based masonry paints. The product is engineered for bridges, parking structures, athletic stadiums, highways and above-grade vertical and horizontal substrates.

BioCoatings Silox SAC is a solvent-based, VOC-compliant, combination siloxane/acrylic masonry sealer with a gloss finish. It produces a surface film that will not impair the natural breathing characteristics of treated surfaces, the company says. The product is engineered for above-grade vertical and horizontal substrates, such as bridges, parking structures, athletic stadiums, and highways. [www.biocoatings.org](http://www.biocoatings.org)

**Corrosion Control Industries'** (Johnson City, TN) Masonry Cote is described as a tough and extremely durable elastomeric polymer coating that eliminates the growth of micro-organisms, including algae, fungi, mold, yeast, and bacterial colonies on its surface. When applied, the product has the configuration of a sponge in micro-porous form, but retains a tough, resilient structure with a high-diffusion resistance to carbon dioxide, the company says. The product is designed to give excellent protection against aggressive pollution, such as sulphur dioxide (acid rain) and chloride attack, while retaining long-term UV protection against strong sunlight. Even with its protective abilities, CCI MASONRY COTE allows gases and water vapors to escape from the substrate, improving the longevity of the substrate.

CCI MASONRY COTE is said to be an excellent coating for concrete, stone, plaster, block and other masonry surfaces. This formula is described as ideal for halting the degradation of stone and masonry surfaces in existing buildings or for preventing decomposition in new construction. [www.neutrarustinc.com](http://www.neutrarustinc.com)

New from **Cortec Corporation** (St. Paul, MN), MCI®-2018 is a 100% silane sealer containing Cortec's patented migrating corrosion inhibitors. The corrosion inhibitors are designed to migrate to embedded steel reinforcement and form a protective layer that mitigates the corrosion process. Recommended applications for the product include rehabilitation of existing concrete structures and extension of the life span of new structures. According to the company, the MCI inhibitors will migrate a considerable distance through concrete to protect embedded ferrous metals.

When it comes into contact with steel, MCI has an ionic attraction to the steel, and forms a protective, molecular layer. MCI's affinity to the metal is stronger than water, chlorides, and other corrosive contaminants, the company says.

In new construction, MCI is admixed either with the batch water or directly into a mixer. For existing structures, MCI applied to the surface is drawn into the concrete via capillary action. The sealer can be applied by spray, brush, or roller. [www.cortecvci.com](http://www.cortecvci.com)

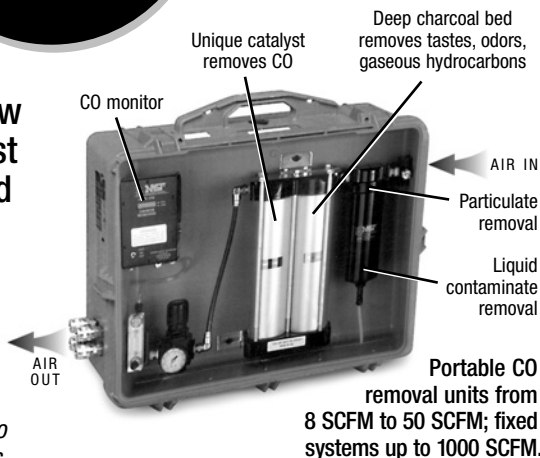
**Industrial Nanotech, Inc.** (Naples, FL) has announced the release of a second addition to its patented waterborne Nansulate EPX line of epoxy coatings formulated for thermal

*Continued*

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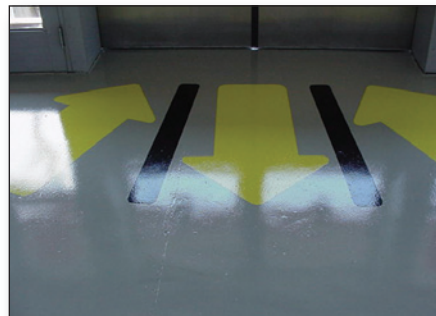
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insulation and flame resistance. EPX-K will offer the same corrosion and chemical resistance as the company's EPX-4 product, with increased thermal resistance and greater ease of application due to lower viscosity, the company says. The coating can be applied from 1/8 in. to several inches thick.

According to the company, the EPX-4 product is recommended for use if fire resistance is a desired attribute, and EPX-K is recommended for customers looking for easier application by brush instead of specialized spray equipment or trowel. Noting that access to industrial application equipment is more limited in many areas with expanding markets, such as India, China, and Brazil, the company says the recent substantial increase in the number of inquiries and level of interest in its products from India was the catalyst for the creation of the version of the EPX system technology.

The coating is recommended for a wide variety of industrial and commercial plant, equipment, and building applications. [www.nansulate.com](http://www.nansulate.com)



*Courtesy of JFB Hart Coatings, Inc.*

HP-105 is a two-component, aliphatic polyurethane coating from **JFB Hart Coatings, Inc.** (Woodridge, IL) that is formulated to be applied to many surfaces, including concrete and metal, without the use of a primer. The company describes the coating as a high-gloss, non-yellowing, abrasion- and chemical-resistant, flexible urethane coating for both exterior and interior applications. The coating, which has less than 30 g/L of VOCs, is also isocyanate free once the two components are mixed.

Recommended applications include food and beverage, pharmaceutical, wastewater treatment, and power facilities; storage tank exteriors; pipelines; and amusement parks.

The coating is registered by NSF International as suitable for use at USDA facilities on structural surfaces with the possibility of incidental food contact. [www.jfbhartcoatings.com](http://www.jfbhartcoatings.com)

**KiON Specialty Polymers** (Charlotte, NC) has recently added G-Shield™ Sealer/Primer to its G-Shield Anti-Graffiti Coatings product line. The product is a clear, waterborne, heavy-duty sealer and primer designed for superior topcoat adhesion. According to the company, it fills air pockets, cracks, and pores in concrete block and other concrete surfaces to which the G-Shield Anti-Graffiti Coating can be applied. When used together, the products are designed to protect mineral substrates from paints, inks, markers, dirt, grease, and other stains. The protected material can be cleaned numerous times without reapplication, the company says.

Additionally, with G-Shield sealer and anti-graffiti coatings, a "heavily coated" appearance will be prevented while providing a non-sacrificial barrier to graffiti and grime, the company says. The company also describes the product as non-sacrificial; resistant to alcohol- and ketone-based solvents, most organic solvents, and brake fluid; resistant to UV light; non-flammable (when cured); and economical. [www.thegshield.com](http://www.thegshield.com)



*Courtesy of United Coatings*

**KSG Innovations, LLC** (KSG), based in Dedham, MA, is introducing AG-1000 Anti-Graffiti & Industrial Release Coating, a multi-purpose, two-part clear coating that may be applied over virtually any surface, the company says. The product is 100% hydrophobic (will not absorb water) and cures to a high-gloss finish so smooth that virtually nothing can adhere. [www.ksginnovations.com](http://www.ksginnovations.com)

**SEI Chemical** (Los Angeles, CA) has reformulated its two-component GPA-200 Graffiti Proofer® Anti-Stick coating into a one-component, fluorinated polymer-based coating with VOC content below 20 g/L and upgraded performance, the company says. Properties include high durability, chemical and hydrocarbon resistance, and a high slip coefficient. The coating can be sprayed, brushed, or rolled on, and it dries in a few hours. [www.seicheimical.com](http://www.seicheimical.com)

Graffiti Shield from **United Coatings** (Spokane, WA) consists of a clear protective coating and a separately sold spray-on cleaner, Graffiti Shield Cleaner. The coating, a two-component, waterborne product, seals previously painted substrates to minimize the effects of inks or paints that graffiti artists use. The cleaner requires only minimal effort to remove graffiti paint and markers, the company says. The system is intended for most vertical surfaces. [www.unitedcoatings.com](http://www.unitedcoatings.com)



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