

AWWA Conference Slated for Chicago

The American Water Works Association (AWWA) will hold its Annual Conference and Exposition, ACE10, at McCormick Place, West Building, in Chicago, IL, on June 20–24.

The professional program is organized into 17 tracks, with several sessions in each category. Participants can earn CEUs for several of the tracks. Six workshops will take place on Sunday, and dozens of committees have scheduled meetings over the course of the conference.

The exhibit hall opens on June 20, with over 500 companies and organizations expected.

Attendees can earn CEUs at Exhibit Hall Education sessions on Tuesday and Wednesday, which will cover pipeline repair and restraint and water loss control.



Photo courtesy of the Chicago Convention & Tourism Bureau (CCTB)

The annual Water Industry Luncheon will be held on Tuesday, June 22, from noon to 2:00. Other special events include pipe tapping and meter madness contests and demonstrations for operators and poster sessions, a meet-and-greet reception, and a universities forum for young professionals.

For a complete listing of the professional programs, exhibitors, and special events, or to register, visit www.awwa.org.

Exhibitors

As of press time, exhibitors of special interest to the industrial and protective coatings industry are listed below with their booth numbers.

• Carboline Company.....369	• Munters Corporation–Moisture Control Services834	• Sherwin-Williams.....1537
• C.I.M. Industries Inc.201	• NACE International.....2158	• Short Elliott
• Corpro Companies, Inc.711	• Pittsburg Tank & Tower Maintenance Co., Inc.2100	• Hendrickson, Inc. (SEH)1942
• Denso.....2062	• PPG Industries, Inc.....214	• Tank Industry Consultants1138
• Devoe Coatings.....213	• Protecto Wrap Company.....336	• TNEMEC Company Inc.1001
• Induron Coatings Inc.1115	• Radiodetection581	• Trenton Corporation.....469
• Insituform711	• Raven Lining Systems1666	• Utility Service Co. Inc.327
• International Paint LLC213		
• Layfield Geosyn. & Ind. Fabrics266		

Cavallo Receives ASTM Award of Merit

Jon R. Cavallo, P.E., senior consultant and corporate corrosion and coatings specialist at Enercon Services Inc. (Tulsa, OK), has received the ASTM Award of Merit and accompanying title of fellow from ASTM International Committee D33 on Protective Coating and Lining Work for Power Generation Facilities. The Award of Merit is the highest organizational recognition for individual contributions to ASTM standard activities.

Cavallo has been a member of ASTM since 1981 and recently completed a 6-year term as chairman of Committee D33. He currently chairs Subcommittee D33.02 on Service and Material Parameters and leads several D33 task groups. Cavallo co-authored ASTM Manual 8, Manual on Maintenance Coatings for Nuclear Power Plants, and serves as a liaison between Committee D33 and the U.S. Nuclear Regulatory Commissions. He has been honored with the Award of Appreciation twice by Committee D33, in 1992 and 2001.



Jon R. Cavallo

Cavallo started his career in the U.S. Naval Nuclear Power Program as a certified nuclear submarine engineering watch supervisor. He has also served in technical engineering and managerial positions and has provided corrosion mitigation professional engineering services in surface preparation, protective coatings, and linings. He is a registered professional engineer in three states, an SSPC Protective Coatings Specialist, and a NACE International CIP Level III coating inspector with nuclear facilities endorsement. Cavallo is a member of SSPC, NACE, ASME, and the National Society of Professional Engineers. He has written several articles for *JPCL*.

Cavallo will present the Nuclear Coatings Systems webinar as part of the SSPC/*JPCL* Webinar Series: Education and Training in Protective Coatings. The Nuclear Coatings Systems webinar will take place on Wednesday, July 21, at 11:00 a.m. EST. For more information or to register, visit www.paintsquare.com/education.

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Give it a shot! Capture the barcode above for a direct link to sign up for *PaintSquare News*. Look for barcodes in PSF on p. 8, SSPC News on p. 35, and Project Preview on p. 39.

Keep an eye out for easy access to 2D barcodes in future issues of *JPCL*.

Hanson Buys Visuron

The Hanson Group LLC (Alpharetta, Ga.) has announced that it acquired polyurea-maker Visuron Technologies, Inc. of Bay City, Mich.

Previous owners of Visuron were Tom and Marcia Davis. According to the Hanson Group, Tom Davis was an outstanding visionary and a leading edge developer in polyurea technology. His notable discoveries include patented high chemical-resistant, toughened polyurea elastomers; patented sprayed-in place pipe polyurea technologies; electrostatic polyureas; and other custom products, designed for fast cure, no volatile organic compound content, and high performance.

Launched in 1996, The Hanson Group sells coatings, chemicals, and other products for construction and other industries.

For details, visit www.hansonco.net.

Blastrac Promotes Rippman, Robb

Blastrac NA announced the promotions of Jonn Rippman to national sales manager and training director and Paul Robb to engineering manager.

Rippman has 23 years of experience in surface preparation methods and technologies. He was a field service engineer for nine years, a regional manager for another nine years, and a Blastrac national training director for the past five years. Rippman created the company's Surface Preparation Academic Resource Center training classes.



Paul Robb

As national sales manager, he will work closely with regional sales managers and distributors in the development of new territories, the company said.

Robb has nearly 10 years of experience with Blastrac and is certified as an SSPC Concrete Coatings Inspector. He is trained and authorized to operate the full Blastrac product line. His new responsibilities will include leading research and development efforts, implementing global designs, managing design/drafting, managing quality control personnel and processes, and more.



Jonn Rippman

AAA Painting Names Product Specialist



Rich Schutt

Rich Schutt has joined AAA Painting Contractors Inc., Wheaton, Ill., as a commercial/industrial product specialist, with responsibility for development of customer relationships as the company works to expand sales in the commercial and industrial marketplace.

Schutt has 15 years of experience in sales and management positions with J.C. Licht and Benjamin Moore & Company, with responsibility for multimillion-dollar territories and accounts. In addition to expertise in floor coatings, he is an SSPC member and NACE-certified.

Getting the Right Profile on Weathering Steel

A specification for a bridge to be built of high-performance weathering steel (HPS GR50/GR70W) requires an SSPC-SP 10, a profile of 3–5 mils, and metallizing with a final dft of 10–12 mils. What challenges, time, and costs are associated with obtaining the profile, primarily in the shop but also in the field? Are there any long-term performance issues with metallizing over weathering steel?

**Chuck Pease
PCG**

It can be very difficult and costly to achieve a 3–5 mil blast profile on weathering steel because it has an inherent surface hardness greater than conventional carbon steel. It can therefore take 30–40% more hours of labor to achieve a 3–5 mil profile.

Weathering steel construction plays a

part because a typical weathering steel bridge girder is unique in design to minimize the accumulation of debris and moisture. We could not achieve a 3–5 mil profile using even G25 steel grit with a 40–50 Rockwell C hardness while meeting an SSPC-SP 10 degree of cleanliness. The best we could come up with was 1.75 mils. We were finally able to achieve an average of 4.2 mils

using a mixture of G18/G16 steel grit.

We were able to convince the DOT to allow a more aggressive profile as a better anchor profile for the subsequent metallizing.

As for long-term performance issues with metallizing over weathering steel, I am not aware of any to date. In specifying weathering steel for structures to be metallized, the specifier should take care not to include stitch welds; stiffener connections to bottom flanges should be specified to be continuous welds all along the stiffeners, and snipes should be eliminated or continuously welded to the webs.

Other areas of concern for long-term metallizing performance would be to eliminate areas that will hold water or conden-

Continued

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Problem Solving Forum

sation for long periods of time, because crevice corrosion can develop and the oxide coating found on typical weathering steel will not develop on surfaces that are continually wet or covered with debris.

Zinc metallizing systems are porous until the zinc oxidizes, so care should be taken to design weathering or carbon

steel structures where these micro-environments cannot develop.

Got Questions and Answers? PSF Is Now Online and in Print

If you have answers for *JPCL's* Problem Solving Forum questions, or if you have questions of your own, you can now

submit them online through the our electronic newsletter, *PaintSquare News*.

In addition to the June 2010 question, which was the first to appear in *PaintSquare News*, recently posted questions include the following:

- How does abrasive recycling affect cleaning rates when steel is blast-cleaned in the field?
- How should a contractor respond when he reads a specification requirement that "the nominal dry film thickness of the coating shall be 3 mils"?
- How do you determine the size of the dehumidification equipment required for a tank lining project?
- If I apply a zinc-rich epoxy primer at 3 mils' dft in the shop with air temperature of 90 F, what checks can I make to determine when it is safe to handle and stack the primed steel components?

Get to the Forum Even Faster with Your Smart Phone

Download any barcode app (see p. 5), aim the camera on your phone at the barcode below, and tap "continue" when your phone screen prompts you.



What about Earlier PSFs?

You can find all PSF questions and answers from 1995 to the present through the *JPCL* archives on www.paintsquare.com.

Not Online Much?

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 **HI-TEMP COATINGS TECHNOLOGY**

The Case of The Mysterious Cracking Coating

By James D. Machen, Senior Coatings Consultant, KTA-Tator, Inc.
Richard Burgess, KTA-Tator, Inc., Series Editor

If you've ever read a mystery novel or have been to a mystery dinner theater, you know that solving the mystery often involves putting all the pieces of the puzzle together to find the culprit. While the characters and schemes that evolve may not be as elaborate or intertwined as a mystery writer can make them, coating failures often present a mystery that needs to be solved. This was the case when a series of fine hairline, radiating cracks suddenly appeared in the newly-painted interior surfaces of an industrial research building during the construction phase.

Background

The nature of the scientific research being conducted at the new industrial research facility under construction demanded that the research rooms, or "clean rooms," be environmentally controlled such that specific ambient conditions and a dust-free atmosphere be maintained. A part of these controls included a system that could pressurize/depressurize the rooms to prevent the entry of outside air as needed.

The interior corridors of the facility and the clean room walls were constructed of a pre-fabricated cement wallboard. The wallboard was supplied in 4-inch x 8-inch and 4-inch x 12-inch sheets, approximately $\frac{3}{4}$ inches in thickness. The wallboard composition consisted of cement, aggregate-like additives, and other fillers. The cement board was attached to the metal wall and ceiling studs using special screws,

similar to the installation method used for gypsum drywall in commercial and residential applications. Prior to coating, all joint areas between the wallboards were bridged with a fiberglass-like joint tape, and the joints were filled flush with the surrounding wallboard surface using a joint-filling compound. This process was also similar to that used to finish gypsum drywall.

After completion of taping and joint filling, the painting specification required that a four-coat paint system be applied. The coating system is shown in Table 1.

The cement wallboard was installed in the mid- to late-summer, and painting was completed in mid- to late-November.

After construction-phase testing of

apply an additional coat of paint in an attempt to bridge the fine cracks that had formed on the plane of the wallboard. Because the cracking on the plane of the wallboard was so fine, project personnel believed that cracks were a surface phenomenon only in the epoxy finish coat layer.

After refilling and repainting, virtually all of the cracks reappeared. Site construction personnel identified and monitored the cracks in some of the rooms for informational purposes. The monitoring revealed that the existing cracks grew and new cracks developed.

A consulting firm specializing in coating failure analysis was contacted to determine the cause of cracking and offer repair recommendations.

Table 1

Coat	Generic Product Type	Dry Film Thickness
1st Coat:	Acrylic Cement Filled Surfacer	13.0 to 25.0 mils
2nd Coat:	Acrylic Primer	1.0 to 2.0 mils
3rd Coat:	Polyamide Epoxy	2.5 to 3.0 mils
4th Coat:	Polyamide Epoxy	2.5 to 3.0 mils
Total DFT		19.0 to 33.0 mils

the special environmental control systems (a series of pressurizing and depressurizing operations), cracks were observed along horizontal and vertical joint areas between wallboard panels. In addition, fine spiderweb-like cracks also radiated over the plane surfaces of the wallboards. Conversely, no cracks were apparent in the connecting corridor walls. At that time, a repair procedure was initiated to fill the cracks along the horizontal and vertical joints and then

Field Investigation

The coatings consultant visited the research facility construction site and inspected representative cracking on walls in multiple clean rooms and also observed the non-cracked walls in the connecting corridors. In addition, an area with bare cement wallboard, in which the wall joints had been

finished but not yet painted, was available for observation.

The following inspections were performed by the coatings consultant.

Visual Observations

A visual inspection was used to characterize the location, size, and extent of the cracking problem.

The interior walls of the clean rooms all displayed various concentrations of

Continued

Cases from the F-Files

fine hairline, spiderweb-like radiating cracks in the coating system, which spanned the surface of the wallboard. Wider cracks were often present on the vertical, and sometimes horizontal, joints between individual wallboard panels. In some instances, the blade of a utility knife could actually be inserted into the wider vertical joint cracks.

Inspection of the corridor walls revealed no evidence of cracking.

In one corridor there was an access panel in the wall for electrical equipment. The access panel was removed, revealing that the interior, unpainted backside of the cement wallboard had a series of fine hairline cracks present; however, the cracks were not visible on the painted corridor side of the sample.

An inspection of a section of cement wallboard area that had not yet been painted was also performed. The inspection revealed that a series of fine hairline cracks in the unpainted, bare wallboard surface. Where the wallboard could be inspected on the front and back sides, the cracks penetrated the wallboard, indicating that the cracks existed in the wallboard before it was painted. In fact, on many areas of the unpainted wallboard where joint filling compound had been applied between sections, hairline cracks were already visible.

Adhesion

Adhesion was assessed by subjectively probing the coating with the blade of a utility knife and was rated based on the amount of force required to detach the coating from the surface with the tip of the knife. In all instances, coating adhesion was rated as good, indicating that there was no evidence that the hairline cracks in the coating system had any adverse effect on adhesion.

Coating Samples

A battery-operated drill with an attached hole saw was used to remove multiple core samples from various locations.

Areas of fine hairline cracking on the plane of the wallboard and cracks at the joints between wallboard panels were sampled.

Many of the samples came from areas where vertical and horizontal cracks intersected on the plane of the wallboard. Upon removing the core sample, the identical pattern of cracking was visible on the sides and back of the samples and on the sides of the cut-out hole in the wallboard panel.

Laboratory Investigation

A visual assessment and a microscopic examination of the surface of the coating were performed on all core samples. As can be seen in Figures 1–3, the cracking was confirmed to originate in the cement wallboard layer and then radiated through the applied coating system.

Figure 1 shows a cross-section of a core sample of concrete wallboard, taken at the intersecting horizontal and vertical cracks in the coating system. The pattern of hairline cracks in the photograph shows how cracks originating in the concrete wallboard penetrated through the coating layers, even with additional layers of epoxy finish coat that were applied in an attempt to repair the cracks.

Figure 2 shows a cross-section of a core sample taken

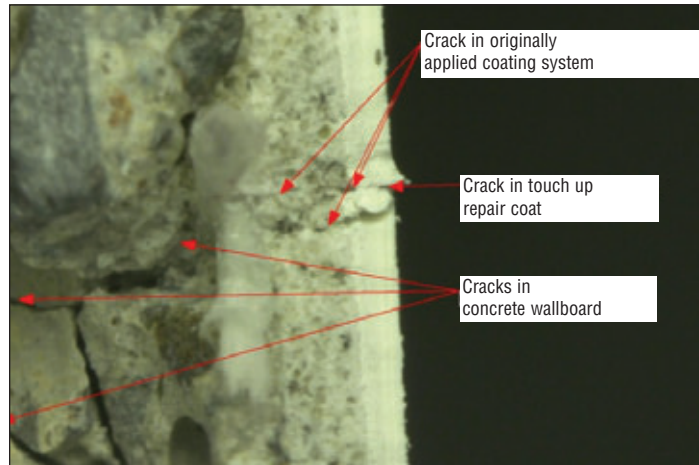


Figure 1



Figure 2



Figure 3

from a horizontal construction joint between two concrete panels. The pattern of cracking shows that the crack emanated from the construction joint that had been filled with joint compound and joint reinforcing tape. The crack then penetrated the coating system.

Figure 3 shows a core sample taken from the back side of the

Cases from the F-Files

concrete wallboard located within an access panel in the connecting corridors between clean rooms. The uncoated backside of the concrete wallboard on the interior of the access area showed cracking; however, the cracking did not penetrate to the coating system on the corridor side of the wallboard. Closer examination of the crack in the cement wallboard revealed the crack actually ended within the concrete wallboard and did not penetrate the coating system.

Conclusions

Information obtained during the site visit and the subsequent laboratory analysis of coating samples indicated that the fine vertical and horizontal cracks visible in the coating system were a continuation of cracks originating in the underlying cement wallboard. In some instances, the cracks were a continuation of cracks in the joint filling compound between individual wallboard panels.

Cracking was most evident on the interior walls, while the corridors outside of the rooms were virtually free of cracking. It was reported that the cracking problem was noticed and became more pronounced while the building's environmental control system was being tested, which caused movement or flexing of the walls. The corridor outside of the rooms was not exposed to the same environmental control variables (i.e.,

pressurizing/depressurizing) as the rooms. As the movement occurred, existing cracks expanded. The expansion of the cracks in the wallboard also created stress within cement-filled acrylic surfacer and epoxy finish coat layers, which were inherently rigid. Therefore, they did not have the physical capability to expand or flex with the substrate movement and, as a result, cracked to relieve the internal stress.

Repair Recommendations

Obviously a coating system with sufficient ability to expand and contract with the cement wallboard was needed. Because the walls of the clean rooms required frequent washing, the recommended coating system must be capable of withstanding cleaning. It was determined that a new technology, high-performance, waterborne acrylic coating would be a viable candidate for the repair work because this coating would be capable of bridging the fine cracks in the coating system and have sufficient flexibility to expand with any substrate movement without cracking. The larger cracks at vertical joints between individual wallboard panels could be repaired with a flexible filler or a flexible caulking material.

However, one more obstacle had to be addressed before

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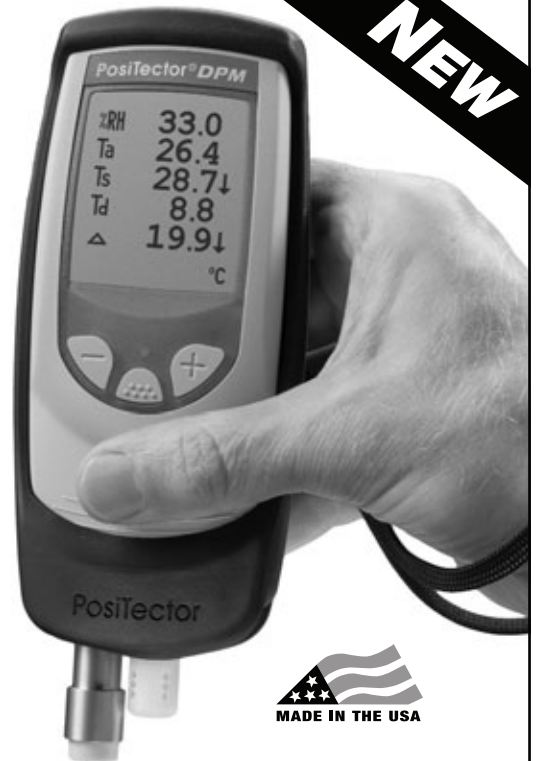
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wholesale repaint work could be accomplished. The coating system had to be able to adhere adequately to the existing epoxy finish coat. Applying additional coats over the existing epoxy finishes can be challenging because epoxy finishes have hard, smooth, and slick surfaces. Because of these physical attributes, special steps (i.e., scarifying the surface or applying specially-formulated products) to promote adhesion of the new coating layers are often necessary when painting over existing layers. With this in mind, it was recommended that one of the clean rooms be selected as a test mock-up room.

The following options were investigated for a test mock-up room:

- Option 1—Surface Preparation: Superficial scarification of the entire wall surface with finely graded abrasive sandpaper followed by dusting/vacuuming to remove all dust and debris. Recoating System: Application of one or two coats of a high-performance acrylic coating.
- Option 2—Surface Preparation: Water washing or dusting of the entire surface to remove all dust and debris. Recoating System: Application of one or two coats of a high-performance acrylic coating.
- Option 3—Surface Preparation: Water washing or dusting of the entire surface to remove all dust and debris. Recoating System: Application of one coat of special acrylic bonding primer followed by one or two coats of a high-performance acrylic coating.

Once the recoating systems had been applied and proper curing was achieved, the mock-up room was pressurized/depressurized, cleaned, and sterilized to mimic actual in-service conditions. Following this process, the vari-

ous test walls were inspected and evaluated. Evaluation included a thorough visual inspection and simple protocol of adhesion test measurements performed in accordance with ASTM D 3359, Measurement of Adhesion by Tape Test.

The results of the testing clearly showed that best adhesion results were achieved with Option 1. Once the cause of the

cracking problem had been identified and candidate coating repair options had been thoroughly tested, repainting of the facility was successful. More importantly, the cracking problem was solved simply and inexpensively by using additional coats of a flexible, high-performance acrylic coating instead of replacing the entire coating system or the cement wallboards.



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James D. Machen is a Senior Coatings Consultant with KTA, a NACE-Certified Coatings Inspector Level 3 (Peer Review), and an SSPC-Certified Protective Coatings Specialist.

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Coating on Thames Barrier Assessed after 25 Years

Ship collision gives water jetting roles in environmental protection, Barrier coating repair, inspection.

By Martin Earlam, UK Environment Agency

The River Thames is tidal and has a history of flooding under certain conditions of high spring tides and storm surges from the North Sea. After major flooding in 1953, it was decided that there needed to be an improvement in the flood defenses of London, and the result was the Thames Barrier, one of the largest movable flood barriers in the world. It spans 520 metres of the Thames near Woolwich, protecting 125 square kilometers of central London from flooding caused by tidal surges.

Numerous locations and various designs were carefully considered for the Thames Barrier site. The design was selected in 1972, and the work began in 1975. Up

to 2,000 contractors erected the now-famous structure, which became operational in 1982 and was officially opened by the Queen in 1984. The design comprised 10 steel gates,

four of which, for the main navigation sections are 61 meters wide, and the other six are 31 meters wide.

All of the gates were constructed of steel, and in normal operation, the large main gates (each weighing 3,300 tonnes), and two of the smaller ones, rest under the riverbed, being raised only through 90 degrees to form a "steel wall" across the river to hold back the high tide and prevent the

flooding of London, when required. Corrosion prevention of the steel gates was thus of great concern, and an extensive investigation and evaluation of possible protective coating systems began in 1972 to ascertain the optimum coating system to protect the gates for, if possible, at least 25 years before any major maintenance of the coatings would be required. This challenge was daunting in the 1970s because then, the life of even 5-coat systems was only 7 to 12 years, and the designers were looking for a figure of more than double that.

This article describes the initial selection of the protective coating system, and the results after 25 years in service. An unplanned maintenance repaint of one of the gates is also highlighted as are the roles that high pressure waterjetting played in maintenance and inspection of the coating systems.

Protective Coating Requirements

The requirements and conditions set for the coatings to

Continued



Fig. 1: Queen Elizabeth II officially opening the Thames Barrier in 1984, which had become operational in 1982

All photos courtesy of the author



Fig. 2: Overhead view of the Thames Barrier

Editor's Note: This article is based on a presentation given at the UK Institute of Corrosion's 50th anniversary event, May 21, 2009.



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be assessed were:

- minimum 25-year coating design life;
- resistance to Thames water, which at the time was polluted and therefore very corrosive;
- protection against abrasion from gravel and slurry movement;
- resistance to impact damage from vessels and floating debris;
- excellent adhesion;
- resistance of the coating to cathodic disbondment, needed because sacrificial cathodic protection would be used to protect minor areas of mechanical damage;
- very low permeability to water due to the long periods of immersion; and
- good edge protection of the steel cross-bracings and stiffeners.

The History of the Coating Selection

The coating selection trials started in mid-1972. Initially, 34 coating systems were included after researching the various options available and their track record on similar steel structures, not only in the UK, but also in mainland Europe and North America. The 34 systems were refined to 7 possible generic coating systems 1976:

- high-build chlorinated rubbers (5 coats);
- high-build aluminium/bitumen (4 coats);
- epoxy coatings, pigmented with MIO (4 coats);
- inorganic zinc silicates/epoxy topcoat (4 coats);
- thermal metal spray and epoxy/polyurethane coat (4 coats);
- coal tar epoxies (3 coats); and
- hot-applied, solvent-free epoxy (1 coat).

Testing of the Coatings

The initial 34 generic coatings systems were applied in triplicate, to a series of 12 in. x 15 in. abrasive blasted mild steel panels, some of which had double bead welds placed across one face of the panel to evaluate the effectiveness of the coating for weld protection. Other test panels were scribed with a knife to evaluate the spread of corrosion under the film. The test panels used in the temperature-weathering test had center strips abrasive blasted before being thoroughly rusted in Thames River water to simulate site damage. The damaged strips were then abraded using dry blasting and water abrasion before being re-painted, cured for seven days, and then immersed for an initial 4 weeks and another 22 weeks with pull-off adhesion tests after each period.

The panels were immersed at a 45-degree angle at the half tide level, so that they were alternately immersed and dried at the Woolwich Ferry jetty on a specially designed exposure rack, and were examined at regular intervals up to 1977,

Case History



Fig. 3: Exposure rack at Woolwich jetty in 1978.

when the final decision and specification were made.

In addition to the natural exposure of the panels in the River Thames, a series of accelerated tests,

designed to evaluate the conditions likely to be encountered by the various coating systems, were carried out. This initial testing regime comprised accelerated testing in weathering cabinets and salt spray cabinets; tests for cathodic disbondment, adhesion, cohesion, and blistering; and specially designed tests for erosion and impact damage with falling graded wet gravel.

In 1976, the 34 coating systems on test were short listed to 9, and the final selection in 1977 was the hot-applied, solvent-free (HASF) epoxy. Three manufacturers had supplied this generic system and all three brands of the system performed well in all tests carried out. The coating was rated far better than the coal tar epoxies and the combined metal spray coating/paint systems. In particular, the HASF coatings held out very well with a thick coating on edges, corners, welds, and fixings. The contractor appointed for the fabrication of the Barrier gates selected the coating supplier for the HASF epoxy.

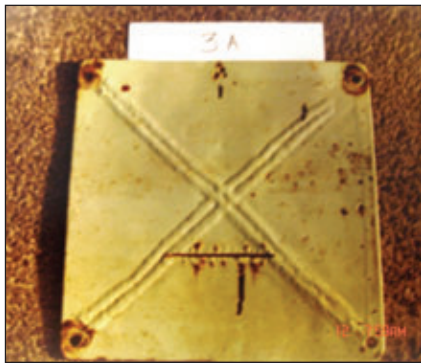


Fig. 4: High-build HASF panel after 5 years' exposure

The final specification was

- Internal Leaf Coatings—one coat (HASF) epoxy, 500 micron dft
- External—one extra coat, anti-scour coal tar epoxy, 250 micron dft
- Internal Arm Coatings—one coat (HASF) epoxy, 500 micron dft
- External—one coat coal tar epoxy (anti-scour), 500 micron dft

Original Surface Prep and Coating

The gates were dry abrasive blasted to SA 3 SIS 05900; then, welds and edges were stripe coated. The HASF epoxy, in a grey-green color, was applied by plural-component spray at

Continued

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Case History

500 microns dft. To give a sense of scale to the main gates, 40 tons of paint were applied to each.

All of the painting was carried out under controlled temperature and humidity conditions. Internal work involved forced ventilation of hot air into the structure; external surfaces involved the protection of temporary shelters erected to protect the entire gate arm or leaf and the deployment of similar heating equipment. With the shelter for a 61-meter gate leaf having to cover a ground area of 21 m by 61 m, the programming and progress of the painting work depended partially on the contractor's ability to provide shelter on the necessary scale.

Application of paint inside a 61-meter gate leaf accorded with the following tasks:

1. Screen off the corridor into half (3-meter) lengths and apply the ventilation equipment.
2. Shot blast the entire half corridor (approximately 1,000 m²) to SA3 using G24 steel shot. Shot blasting took between 10 and 14 days, blasting by day and recovering shot by night.
3. Sweep blast entire surface and vacuum thoroughly.
4. Immediately brush-apply a stripe coat of solvent free epoxy, cold-applied to the welds only.
5. Hot spray the solvent-free epoxy to 500 microns in one coat over all surfaces.
6. Brush-apply the solvent-free epoxy (cold-applied) to areas inaccessible to spray (e.g., behind stiffeners) to a DFT of 500 microns.

Painting operations 3, 4, and 5 were carried out as a continuous operation on one shift over a period of about 15 hours.

Work on the external gate leaf surfaces followed the same sequence, though with a further coat of 250 microns of an anti-scour coal tar epoxy to bring the total specified thickness up

to 750 microns. This second coat and the coal tar epoxy on the external surfaces of the gate arms were applied by conventional airless spray equipment. The coal tar epoxy was applied immediately after the sweep blast as a "holding" coat before a stripe coat and then three further full coats of coal tar epoxy were applied with a day between each coat to bring the DFT up to the specified 500 microns.

MV Sand Kite



Fig. 5: Sand Kite accident

In October 1997, a dredger, the MV Sand Kite, collided with one of the piers. The vessel was damaged, dumped its load of sand and aggregate, then sank on top of one of the main navigation gates of the Barrier, where it sat for six days, damaging the protective coating. The Environment Agency required that the damaged gate not be taken out of service while repairs were being made, and that it remain closable within a six-hour notice period. In addition, the Agency required that the surface preparation work before renewing the damaged coating, cause no environmental pollution. Coupled with these constraints, the twice-daily 6.5 meter tides and the heavily travelled river created a challenging situation for repairs to be carried out.

Under the circumstances, the use of scaffolding and stationary containment was not feasible; the Agency turned to relatively new process, UHP water jetting using a remotely controlled unit that could be attached to the gates by

Case History



Fig. 6: UHP water jetting crawler on gate during repair work.

vacuum. This equipment alleviated the problem of access to the gate during cleaning, and vacuum recovery of removed paint and spent water permitted an environmentally friendly process. Paint and corrosion products were removed to bare metal to expose the original SA3 profile with no detectable soluble salts. The water jetting system consisted of a UHP pump, a vacuum skid, the crawler unit, filtration system, air compressor, 440-volt generator, and support equipment. A hose connected the crawler unit to the remote vacuum skid provided up to 650 mbar of vacuum to maintain the unit's attachment to the gate surface and remove the wastewater and paint debris, which was pumped from a separator tank to the filtration system and holding tanks. All this equipment, plus two 5,000 gallon tanks for fresh and effluent water storage and painting equipment and materials were situated on a barge moored adjacent to the damaged gate.

With the gate in the vertical position (closed), the crawler cleaned the upper portion of the surface above the low-tide line. After the top section had been cleaned and painted, the gate was placed in the overhead (maintenance) position and the rest of the gate was cleaned and painted in this position.

Surface preparation in both gate positions was coordinated to be done on the outgoing tides down to the low-tide

Continued



Salts such as chlorides, nitrates & sulfates can cause **premature coating failures** when left on surfaces.

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Case History

waterline. Recoating with a 2-pack high solids epoxy was done on the next incoming tide. The vertical position allowed the painter access to the area to be coated from the barge deck, and a small man-lift placed on the barge allowed him to reach the gate in the overhead position.

Throughout, and at the end of the

contract, the equipment fully met the constraints of never disabling the gate from being closed in less than six hours and operated with absolute minimal environmental pollution, and proved the technique as being a viable solution for the maintenance of the coatings on the large flat areas of the gates.

In addition, the original specification

called for the repair coating to last two years, but because of the high quality of surface preparation provided by the UHP equipment, the coating did not have to be renewed until 2006, after giving eight years' protection.

Coating Inspection

Over the past 25 years in service, ad-hoc inspections of the coating at approximately 5 yearly intervals were carried out by paint consultants and the owner of the Barrier, now the UK Environment Agency (EA), which also undertook annual visual checks.

These spot checks and inspections showed that the coating, apart from minor areas of mechanical damage, was performing as predicted; however, toward the end of the first 25 years, the EA set up a major evaluation program to determine if the coating, with a projected life of 25 years, was nearing the end of its life or, if not, the estimated future duration likely to be achieved.

25-Year Testing Program

The initial 25-year testing program was carried out by a UK inspection firm, starting in 2004, and required a detailed survey of the coatings to provide baseline information so that in the future, regular performance monitoring could be used to predict when degradation would reach a point requiring major coating maintenance.

This intensive testing regime covered adhesion, both qualitative and quantitative measures, using a specially modified adhesion test instrument. The density and size of all blisters and the pH of all liquid-filled blisters were identified and recorded. Cracking, pinholes, mechanical damage, and associated rusting were also monitored and recorded.

To enable this detailed survey to be carried out, the coating surfaces were water jetted at 10,000 psi. Sound coatings were not removed at this pressure. Any bare areas were repaired after



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Webinar Education Series

Cavallo to Teach SSPC-JPCL Webinar on Nuclear Coatings

Jon Cavallo, recent winner of the ASTM Award of Merit, will present the SSPC-JPCL Education Series Webinar, "Nuclear Coatings," on Wednesday, July 21 from 11:00 a.m. to 12 noon. The webinar on nuclear coatings is one of 20 webinars in the series to be offered during 2010.

Education Series Webinars provide continuing education for SSPC recertifications as well as technology updates on important topics.

Participation in the webinar is free, but for those who wish to receive continuing education credits from SSPC, a test is available after the webinar. Cost of the test service is \$25. All participants, however, will receive a free certificate of completion.

The webinar on nuclear coatings will explain how to select coatings for nuclear environments and structures.

Those who wish to participate in the webinar can register free at paintsquare.com/education.

Date: July 21, 11:00 a.m.-12:00 p.m.

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Case History

inspection using a glass flake epoxy, which is also used for maintenance patch repair. Inspection comprised careful visual checks were aided by the use of 10x illuminated magnifiers. Close-up photographs of all features identified during this "fingertip" survey were also taken and transferred to the database with a cross reference to the area and location.

The Findings of the Survey



Fig. 7: Excellent condition of the coating after inspection, with the original gloss still present.

The overall condition of the coating at the end of the first year's 25-year testing program was described as excellent, and it was projected that the coating would last another 15 years before the likelihood of any major maintenance will be required.

Conclusions

The detailed inspection of the three gates carried out in 2005, followed by examination of the remaining seven gates between 2006 and 2008, concluded that the condition after 25 years of all the gates was similar, and only minor patch repairs in localized areas would be necessary. This work has been carried out using UHP waterjetting and glass flake epoxy.

The EA will continue with regular inspections over the next 15 years of the now-projected 40-year coating life, and has drawn up plans to cover the next 25 years and 50 years to maintain the Thames Barrier gates.

The original contractor for the steel gate fabrication was Cleveland Bridge, which appointed two painting sub-contractors, Lloynes and Jack Tighe Ltd. The

original coatings were supplied by Sigma Coatings (now PPG). The waterjetting equipment used for the repair after the Sand Kite accident was a Flow system, supplied by SSPC-QP 1-certified UHP Projects Inc., which slightly modified it for this use and which carried out the work. The coating was supplied by Kemira (Tikkurila). The glass flake epoxy

coating used for touch-up after the detailed inspection was supplied by Corrocoat Ltd. Steel Protection Consultancy conducted the inspection.

Martin Earlam is the Thames Barrier Asset Manager for the UK Environment Agency.

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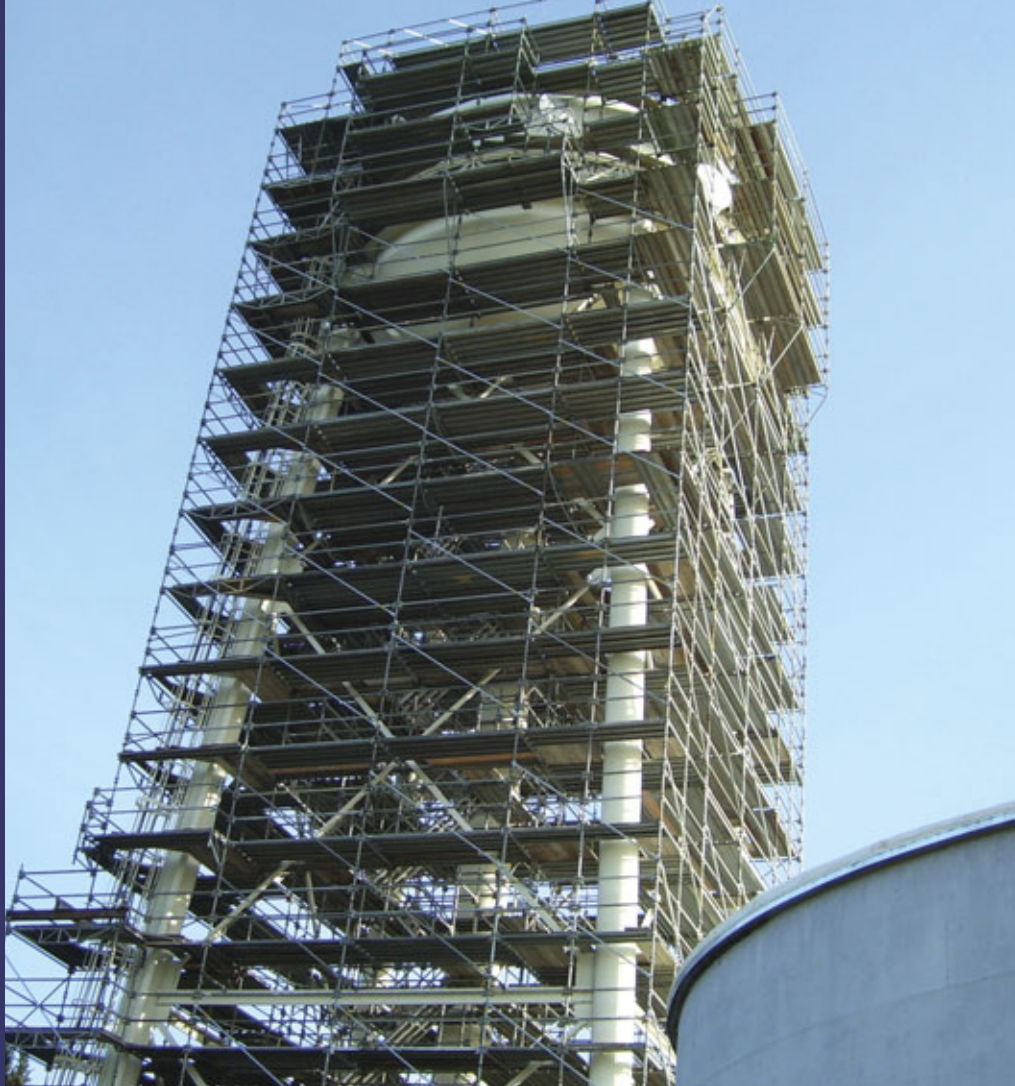

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By Susan Drozd, U.S. Army Engineer
Research and Development Center,
with contributions from Mike Hasbrook,
Washington Industrial Coatings



Supporting our armed forces can take many forms, one of which is protecting military personnel and their families on base during maintenance painting. Such was the case last spring at Fort Lewis, WA, when the exterior of a 200,000-gallon elevated steel water storage tank had to be recoated. Not only did the 130-foot x 65-foot tank have the original lead-bearing primer that had been overcoated, but also, the tank sits in the midst of a residential area of the base. Moreover, the emergency services transmitter and receivers mounted on the tank could not be removed or disabled during the work.



*Above and opposite page, top: Intricate scaffolding that allowed safe access and supported the containment
All photos courtesy of Washington Industrial Coatings*

Proximity of water tank to base housing and other base facilities

And because there was no alternative water supply for the area served by this tank, the tank remained full of water during blasting and painting.

The tank had last been topcoated about 12 years ago, but still had lead primer beneath the topcoats. The tank needed to be painted in the international orange and white checkerboard pattern in accordance with FAA regulations for

aviation obstructions. Funding available through the Department of Defense (DoD) Corrosion Prevention and Control Program brought U.S. Army Engineer Research and Development Center-Construction Engineering Research Laboratory (ERDC CERL), including CERL's Paint Technology Center, the opportunity to be involved in the painting of the tank and to implement a new



Supporting the Troops

Complex Strategy Worked for Repainting Ft. Lewis Water Tank

coating system co-developed with a private coating manufacturer.

First Things First: Protecting the Residents, Environment, and Workers

Environmental Controls: Outside and Inside

The project began in December 2009 with mobilization for the job.

The project requirements were to achieve 100% lead coating removal and application of the new coating system specified. The requirements were met in the middle of a Fort Lewis housing community. The goal was to avoid affecting the quality of life of numerous adjoining neighbors, while maintaining environmental controls and surface preparation standards until surface preparation was completed.

A containment system was designed and constructed in accordance with SSPC-Guide 6, Class 1A, Negative Air Containment using six-mil plastic shrink

wrap with two layers as ground cover before scaffold erection. The intricate scaffolding was then carefully set up, and the containment installation was constructed as a complete 100% six-mil plastic shrink-wrap containment with an exit to a dirty room for lead decontamination and a clean change room. Both rooms were constructed of the same material as the containment. Zipper doors were installed to maintain lead controls, prevent the escape of fugitive dust and contaminated materials, and maintain negative air containment.

A covered hand wash station was constructed for workers exiting the clean room. The station had additional safety and containment monitoring equipment.

The environment inside the containment also had to be controlled to maintain conditions appropriate to surface preparation and coating operations. To this end, a 200 kw, special low-noise generator, a 14,000 CFM dust collector, two

5,000 CFM dehumidifiers, and one 60 KW in-line heater were required to run 24/7 for 10 weeks.

Because the tank was painted while in service and full of water, special precautions had to be taken to prevent condensation on the cool surface during the blasting and coating process. The coating contractor teamed with a dehumidification services company to design and engineer a plan to maintain the specified dew-point, relative humidity, and surface temperature. The plan they developed succeeded.

Worker Protection

The coatings contractor required all workers and visitors to wear hard hats, safety glasses, and safety vests while on site. All visitors were required to sign a visitor log while visiting and before leaving the site. If a visitor was without safety equipment, it was provided.

A competent person was stationed at all times at the entrance of the containment to ensure no one entered or exited



Painter suiting up

the containment without following the proper procedures for lead contamination and scaffold safety. The competent person inspected the scaffold prior to every shift to ensure scaffold was safe for workers.

The coating contractor's crew and any other personnel entering the containment were required to wear Grade D, positive



Each level of the scaffold was marked.

the lead debris generated to non-hazardous leachable levels.

Application Began with a Newly Developed Primer

A patented epoxy polyamide primer co-developed by the U. S. Army Engineer Research and Development Center, IL, and a private coating manufacturer was applied. The technically advanced formulation utilizes an inherently conductive polymer (ICP) in conjunction with zinc dust to inhibit corrosion of the steel substrate. ERDC

pressure, air Supplied Hoods and/or respirators, Tyvek coveralls, cloth coveralls, gloves, Tyvek hoods, painters hoods, and rubber boots. These measures were taken because the lead exposure levels had exceeded the personnel exposure limit (PEL). Hearing protection was also required during the entire surface preparation and cleanup process because of the high noise levels. Showers were also required and provided for all workers exposed to lead levels while working on this project.

During the coating processes, workers wore full-face respirators with chemical cartridges.

At each level of the scaffold a sign was attached designating each individual level in case of emergency. Air horns and fire extinguishers were also stationed throughout all levels of the scaffold for additional precautions.

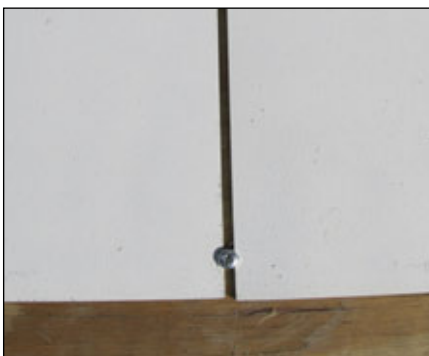
Getting the Job Done

Preparing the Surface Preparation

Surface cleaning to an SSPC-SP 10, Near-White finish with a surface profile of 2 to 3 mils was specified. To meet the specification, the coating contractor used a 70/40 mix of coal slag abrasive with a proprietary additive in the fresh abrasive that would, during blasting, stabilize

CERL continues to monitor the performance of this system on test panels that were prepared in 2005.

The innovative paint formulation inhibits corrosion by forming both a high-quality barrier film and a cathodically protective primer that does not require the high pigment loading associated with traditional zinc-rich primers. The ICP facilitates the transfer of electrons by creating an electron path through the binder and between the cathodic substrate and anodic zinc dust particles. The new formulation also retains the corrosion-inhibiting performance properties of a traditional zinc-rich epoxy primer, with an improvement in other performance properties. The primer was applied to a dry film thick-



Test panels for the new coating



Wet film thickness as well as dry film thickness was measured throughout the work.



Painters inside the containment

ness (dft) specified, 3 to 5 mils.

The intermediate coat specified, MIL-DTL-24441/31 Paint, Epoxy-Polyamide, White, Formula 152, Type IV (tinted to light gray), was applied to the specified dft of 3 to 5 mils.

For the topcoat, MIL-PRF-85285, Coating: Polyurethane, Aircraft and Support Equipment, Type II, in white and international orange, was specified at a dft of 2 to 3 mils.

The dft of the entire system ranged from 8 to 13 mils.

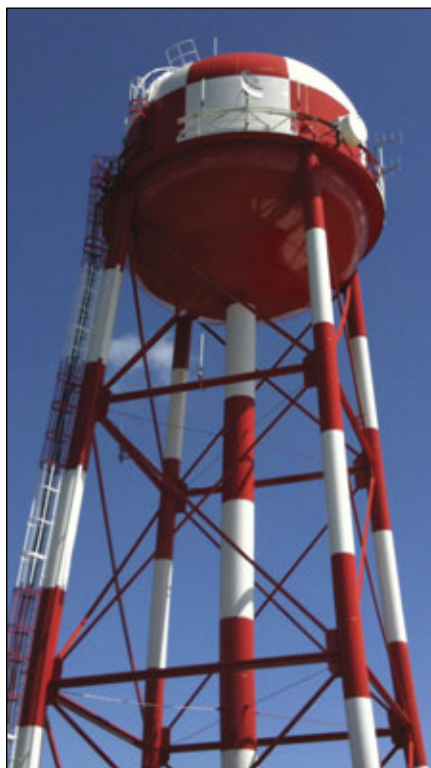
Quality Assurance

The NST Center's QA Tool Kit, an Internet-based software and secure data storage system, was used to allow the

certified third-party QA inspector, field personnel, and ERDC-CERL personnel to manage, in real time, quality assurance data for surface preparation, environmental, and coating application.

The Tool Kit provides easy electronic retrieval and storage of dft and environmental data, saving time, eliminating transcription errors, and ensuring data integrity. As the QA inspector uploads data from inspection instruments into the system, project personnel are automatically notified by email of any deficiencies. QA forms were automatically populated, preventing math and data transposition errors.

ERDC-CERL personnel monitored the contractor's progress using the NST Center's browser-based interface and took an active role in the management of the project. The system allowed both



The completed tank, in the international orange and white pattern required to indicate an aviation obstruction

Army and contractor personnel to track deficiencies to closure and it kept online records of problem resolutions. The QA Tool Kit system reduced the project's administrative overhead by providing direct access to inspection data analysis and online reports. This access reduced the need for hard copy paperwork and minimized delays associated with deficiency adjudication and record reviews.

The application of the topcoat was completed on March 28, 2010. Touchup painting was completed in April.

Finishing Touch

Along with successfully and safely preparing the surface and applying the coating system, the coating contractor also was awarded and successfully passed its initial SSPC-QP 1 Audit. Numerous safety and environmental inspections were also conducted during the Davis Hill project, and all inspections gave the protective measures exceptional ratings.

Project Participants

Tesla NanoCoatings Limited of Massillon, OH, is the coating manufacturer that developed the innovative primer in partnership with the U.S. Army Engineer Research and Development Center, Construction Engineering Research Laboratory in Champaign, IL. Tesla also manufactured the intermediate coat and topcoat for the project.

The painting subcontractor was Washington Industrial Coatings of Silverdale, WA, an SSPC-QP 1-certified contractor. Dryco Drying Services of Northlake, IL, worked with Washington Industrial Coatings to design and provide the dehumidification and related internal environmental control equipment. United Rentals (Puyallup, WA) provided the generators and compressors. SRS Inc. supplied the dust collector. Kodiak Equipment (Lakewood, WA) provided the vacuum. Scaffold as well as scaffolding and shrink wrap services were provided by Safway in Kent, WA (formerly Thyssen Krupp Safway Scaffolding Division). Kleen Blast Abrasives and Equipment in Hayward, CA, supplied the abrasive. TDJ Group (Cary, IL) makes the abrasive additive for stabilizing lead debris. Protective gear such as the respirators and cartridges came from North of Cranston, RI. QA Tool Kit support came from Mark Funke of the National Surface Treatment Center in Louisville, KY. The facility owner's representative was Richard Golden of the Department of Public Works in Ft. Lewis, WA. The prime contractor was Mandaree Enterprise Corporation of Warner Robins, GA.

Susan A. Drozd is a chemist with Paint Technology Center of the Construction Engineering Research Laboratory for the U.S. Army Engineer Research and Development Center in Champaign, IL. She was CERL's project manager on this job.

Mike Hasbrook of Washington Industrial Coatings is a project manager and managed the Davis Hill job.

JPCL



Ambient conditions were monitored throughout the project.



Containment and scaffolding were taken down gradually.



A Contractor's Overview of Fall Protection

Here's a practical reminder about regulations and practices for protecting painters from falls.

By Robert Ikenberry, California Engineering Contractors

The third of three 80-foot by 16-foot platforms is just lifting off the barge. As the platform clears the deck and begins its 150-foot climb to the underside of the bridge, the tug and barge pull away and head back to the dock. I'm one of three workers standing on the deck of the platform as it slowly is winched up, 10 feet, 15 feet, then 20 feet off the water. Suddenly, with a snap and a shout from

above, one corner of the platform begins to tip, and the support cable snakes down, splashing and then disappearing into the cold water of the bay. One of the four suspension points on the bridge above has failed. As I instinctively walk towards the falling end to see what's happening, I am gently lifted by my harness and vertical safety line until I am walking on air, with the partially submerged platform listing about 15 feet below me. It all seems to happen in slow motion. When the worst occurs, there is

no time to react or escape; either you planned for the unexpected, or

In this case, the planning was in place and everything worked as designed. The rescue boat arrived in minutes, and everyone survived with no significant injuries. I know firsthand that fall protection planning can make a difference.

The Problem

Fall hazards are real. The U.S. Occupational Safety and Health Administration (OSHA) reports that falls

Opposite Page: Fig. 1: Modern scaffold for dam gate project. Courtesy of the author

are the #1 cause of death in construction.¹ Unfortunately, there is no universal solution for every situation. Our steel and concrete structures that are the backbone of our infrastructure—from bridges and water tanks to hi-rise buildings, power plants, chemical refineries, sewage treatment facilities, or other structures—all require maintenance (and new construction) painting. In the design phase, little thought is usually given to access for maintenance surface preparation and re-coating. That means more thought and effort are required later, when maintenance work is needed.

Along with roofers, ironworkers, carpenters, and laborers, painters are among the construction craft segments most at risk of death from falls (and not necessarily in that order). Progress has been made, but it is evident that fall protection still has significant room for improvement (Figs. 1 and 2). In fact, a 2010 memorandum from the U.S. Assistant Secretary for Occupational Safety and Health anticipates increases in fines for some violations in all sectors, among other enforcement changes, to help deter all types of violations. OSHA recently released its top 10 Safety Violations for 2009. Scaffolding (29CFR1926.450-454) was number one (9,093 violations); fall protection (29CFR1926.500-503) was number two (6,771 violations).²

This article gives painting contractors an overview of fall risks, preventive and protective measures, and the need for properly planned, designed, and inspected worker protection by safety professionals.

Understanding Fall Risks

Fall risks must be evaluated and fall protection planned by your staff with, if necessary, the help of a third party safety professional before work begins. Planning will help avoid production pressures to cut corners. Job hazard analyses (JHA) are integral to any fall protection plan.

For many years, California has required each employer to prepare an Injury and



Fig. 2: Construction in 1927 of Carquinez Bridge. Fall protection has come a long way, but improvement is still needed. Courtesy of Water Resources Center Archives—Univ. of California, Berkeley

Illness Prevention Program (IIPP).³ OSHA is meeting this summer to discuss a similar requirement nationwide (they call it i2p2). An effective IIPP requires crews to identify reasonably anticipated hazards, including falls, and make written plans to reduce or eliminate the hazards. This information must be effectively communicated to workers, and periodic inspections must be conducted to verify that the plan is working and that new hazards are identified as they arise.

Communicating hazard information and protection techniques to workers means training. Workers must be shown how to recognize fall risks. They need to know what equipment and techniques are appropriate for each situation they face. An effective fall protection training program will start by familiarizing workers with the OSHA standards, especially the height that triggers OSHA's rules, then show workers how the rules apply to the specific sites and tasks at hand.

Defining Terms (Based on OSHA part M 1926.500 unless otherwise noted)

- **Competent person:** A person who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them. The person is knowledgeable of applicable standards, is capable of identifying workplace hazards relating to the specific operation, and has the authority to correct them. 29CFR1926.32(f)
- **Fall Prevention:** Systems, such as guardrails and opening covers that prevent falls to a lower level from occurring.
- **Fall Arrest:** Systems, such as full body harnesses, lanyards, and anchors that stop a free-fall after it has occurred.
- **Job Hazard Analysis:** A technique that focuses on job tasks as a way to identify hazards before they occur. OSHA Publication 3071, 2002 (Revised)
- **Lifeline:** a cable or rope connected to a body harness and lanyard with at least one anchorage. May be either vertical or horizontal (requiring two anchorages).
- **Retractable:** Self retracting vertical cable that is attached to an anchorage at the top and to a worker's harness (D-ring). Allows moderate rate movement in and out but locks in the event of a free fall.
- **Qualified person:** A person who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter, the work, or the project. 29CFR1926.32(m)
- **Rope grab:** a device allowing a worker move up a vertical lifeline but automatically locks on the lifeline if the worker falls.

After learning the risks, workers need to know what is expected for fall protection compliance, how to use and inspect their equipment, and when to ask for help.

While the variety and extent of fall hazards are complex and even daunting, fall risks generally fall into three basic categories:

- working at height on new and existing structures;
- working on scaffolds or suspended work platforms, including swing stages and manlifts; and
- working on ladders, including permanent ladders, stepladders, and extension ladders.

Working at Heights on New or Existing Structures

Painters must be protected from falls whenever they work on roofs, on upper levels, near edges, or near openings. Identify, mark, securely cover or protect openings, skylights, vents, and other holes in accordance with OSHA requirements. Fall prevention and fall protection equipment, discussed later in this article, will also be needed. Just because the hazards already exist (versus those you create building your access) doesn't mean it's not your responsibility to protect your and other workers (29CFR1926.502).

Working on Scaffolds or Suspended Platforms

Anytime you build a scaffold, it must be designed by someone who meets OSHA's definition of a qualified person. (See sidebar, p. 29.) Before each shift, scaffolds, ropes, connections, and components must be inspected by a competent person (sidebar, p. 29), and damaged scaffolding must be removed from service. Inspections should be documented. Workers must evaluate their assigned fall

protection equipment before each use (Fig. 3).

Tags or posted warnings are required on any scaffold that is not complete, and it must not be used until all appropriate protective measures are in place. Worker training, ladder inspection, and fall protection JHAs, plans, and special programs, are all a part of your required safety records package. Note that training requirements for scaffold erectors differ from those for users (29CFR1926.454). See Fig. 4.

If you are providing scaffolding or access platforms, either as the general contractor or as a sub, OSHA can (and will) cite your firm for hazards created by deficiencies in your access if other contractors' workers are exposed or injured, even if your employees are not directly exposed or even on site at the time. Make sure you don't create a hazardous condition, such as incomplete guardrails, and do not allow other workers to be exposed. Even if you are not specifically aware of the

condition or didn't intend for other workers to use an incomplete or in-process scaffold, if you should have been aware with a reasonable amount of investigation, or if you could have posted warnings or barricaded unsafe conditions and didn't, your firm could still be liable.

Working on Ladders

OSHA regulations on ladders in the construction industry can be found in 29CFR 1926.1053. Safe use of portable ladders requires training, planning, and common sense. Specific ladder rules for extension ladders include: inspecting them before

each use and taking damaged ladders immediately out of service (tag them "Do Not Use" or destroy them). Ladders need to be on a stable base with non-slip feet on their lower ends. Extension ladders must be securely latched at the proper extension length (know how your extension ladder releases, extends, latches, and retracts), must be positioned at a 1:4 base to height ratio, extend 3 feet beyond the upper surface on which it rests (a roof or platform, for example), and should be tied off at the top and braced against movement at the base. The first user up a ladder may need to have a co-worker hold the ladder secure until he or she can reach the top to tie it off to the structure.

Step ladders also have simple, specific rules, including inspection as above and using them only when the spreaders are fully locked (a folded up step ladder is NOT a short extension ladder substitute). Climb only the step side of the ladder (not the back) and never stand on the top or next to top step, or on the bucket shelf.

Fixed ladders are on existing structures like process equipment and water tanks. When you have to use these ladders in construction, the general industry safety rules will apply to your crews (e.g., 29CFR1910.27). If the ladders don't have proper cages, landings, platforms, or other fall protection built in, you may have to add fall protection devices. Your safety professional should check first!

The Rules

OSHA's Fall Protection standard requires that workers exposed to falls of 6 feet or more must be protected from falling. There are three basic fall protection tools and a few variations:

- guardrails or hand rails on walking or working surfaces;
- fall arrest systems, which include a full body harness, a shock absorbing lanyard or retractable safety line, and a sufficiently strong anchorage point; and
- safety nets installed under the work location and high enough off the ground to cushion a fall.



*Fig. 3: Fall protection gear should be inspected before each use.
Courtesy of MSA*



Fig. 4: Workers attached to a job-installed cable during scaffold erection. Training for scaffold users differs from that for scaffold erectors. Courtesy of the author

Special activities, such as working over water, may require other fall protection schemes.

Guardrail and Handrails

Usually, the most effective fall protection is a barrier to prevent the fall. In industrial painting operations, guardrails are the second most common type of protection against falls. Handrails or, as OSHA calls them, guardrails are fall prevention, and need to meet specific criteria.

Guardrails must have a top rail at 42 in. (plus or minus 3 in.), a mid rail halfway between the walking surface and the top rail, and substantial construction and anchorage that will resist a sideways force of 200 pounds at the top rail. (Some states have minor differences in minimum top rail heights.)

If you have a commercial handrail system, make sure you follow the supplier's instructions exactly. Designing a guardrail system from scratch requires basic engineering knowledge. If you want to customize your own system, a qualified engineer should design it for you.

Materials for guardrails vary. Permanent scaffold handrails or fixed guardrails are usually steel pipe or tubing, but construction with wood or cable top rails are common. Vertical posts are usu-

ally 8 to 10 feet apart. Cables must be properly anchored and tensioned to provide enough rigidity to limit sag to within allowable limits, but tension must not be too high or it will exert excessive force on anchorages, possibly causing a failure in the event of a real fall. Proper anchorage for posts can be a real challenge too.

Effective barriers aren't limited to handrails with two rails. In some cases, a taller wall is

better, especially if workers will be standing on short stools or boxes to reach higher steel. If the workers' feet move up, the guardrails must move up—the minimum heights are from the elevation of the workers' feet. Solid barriers like plywood or sturdy nets can work below the top rail too, and they may help prevent falling tools, abrasive, or overspray. Toe boards are usually part of a guardrail system. They aren't really fall protection for the

workers at that level, but are intended primarily to prevent objects from falling on workers or pedestrians.

Fall Arrest Systems

In industrial painting, the most common fall protection is a fall arrest system. Unlike fall prevention systems, the arrest system allows the fall, but limits the fall distance to reduce the chance of a serious injury. Every fall arrest system will have three primary components:

- A properly fitted and adjusted full body harness. Harnesses are not one-size-fits all. Smaller individuals may not be able to properly adjust a standard harness and may need a special, smaller size. Larger workers need enough room in their harness that it doesn't chafe or restrict their movement or circulation, and they need to be able to add warmer clothing when it gets cold.
- A suitable anchorage. The harness needs to be connected to a suitable anchorage, generally, a substantial item, either with a strength of 5,000 pounds per employee (can you hang a pick-up truck from the anchorage without breaking it?) or engineered for the maximum arresting force with a safety factor of 2, as indicated

OSHA and Related Standards and Publications for Fall Protection

29CFR1926 – Safety and Health Regulations for Construction

1926.451 – Scaffolds General Requirements

1926.454 – Scaffolds Training Requirements

1926.500 – Fall Protection: Scope, Application, and Definitions Applicable to this Subpart

1926.502 – Fall Protection Systems Criteria and Practices

1926.503 – Fall Protection training requirements

1926.1053 – Ladders

1926.1060 – Stairways and Ladders Training Requirements

1926 Subpart M, App C Personal Fall Arrest Systems—Non-mandatory Guidelines for Complying with 1926.502(d)

1926 Subpart M, App E Sample Fall Protection Plan—Non-mandatory Guidelines for Complying with 1926.502(k)

Personal Fall Arrest Systems (PFAS) – ANSI Z359 family of standards

ANSI/ASSE Z359.6-2009 – Specifications and Design Requirements for Active Fall Protection Systems

ANSI/ASSE Z359.12-2009 – Connecting Components for Personal Fall Arrest Systems

ANSI/ASSE Z359.13-2009 – Personal Energy Absorbers and Energy Absorbing Lanyards

OSHA Publication 3071, Job Hazard Analysis

in 29CFR1926.502(d)(15). Engineered anchorages must be evaluated by a qualified person, typically an engineer, and their use must be supervised by a qualified person [29CFR1926.502(d) (15)(ii)]. The anchorage might be a steel eye, structural member, or other firmly secured, substantially constructed device. To connect to the anchorage, you may need a choker (length of steel cable), a special nylon lanyard that is designed to tie-back to itself, or some other specific fixture.

It is critical to note that scaffold components are NOT suitable for anchorages and shock-absorbing lanyards. Suspended platforms will require independently supported vertical lifelines and rope grabs, retractable lanyards mounted to the structure, or multiply suspended platforms with perimeter fall protection.

- A shock-absorbing lanyard. This lanyard must connect the harness to the anchorage. Where the work zone is vertical and an upper anchorage is available, a self-retracting lanyard, sometimes called a yo-yo, may be a good choice. Remember, a yo-yo is not an anchorage; it's a lanyard, so it should be connected directly to your harness and not through another shock-absorbing lanyard. If you find it impractical to connect the yo-yo to the D-Ring on your own harness, have a buddy connect you, or use a short (12"-18") D-Ring extender. There are also horizontal lifelines, which have different requirements than vertical lifelines, and they too must be designed by a qualified person. For a detailed description of the differences between horizontal and vertical lifelines and other components of fall protection, see the February 2001 *JPCL* article, "Protecting Workers Against Falls," by Liang and Kaelin, pp. 54-60.

With any fall arrest system, you must consider free-fall and deceleration distances, the chances for swing after a fall, and rescue provisions. In most instances, anchorages should be at or above the level of your harness's D-Ring (where you hook in your lanyard) or better, above your head. Lanyards should not be more than 6



*Fig. 5: Special situations, such as working over water, require additional protective measures.
Courtesy of the author*

feet long, and in most cases, 4 feet is better if it gives you enough room to work. With a standard six-foot lanyard attached below your D-Ring, you may be exposed to a fall of 15 feet or more, so in such instances, a shorter lanyard or a higher anchorage point should be used.

Safety Nets

Safety nets are not commonly used in industrial painting work as the main form of fall protection, but they do have some use. OSHA describes the requirements for them in 29CFR1926.502(c).

The Reality

Fall protection takes time, effort, forethought, training, and expense. But the expense of proper planning and execution of an effective fall protection program is much less than the costs of dealing with a tragic fall and the resulting injury or death. Articles in *JPCL* and other industry publications often highlight the citations, lawsuits, delays, and human costs of inadequate fall protection.

Preventing falls is best, of course. Probably the most important component of your fall protection program is your management's commitment to develop and enforce an effective program. It's relatively easy for a safety professional to

become familiar with the rules, write a reasonable sounding program and provide training. But what happens out on the jobsite is what really counts. Fall protection isn't easy or obvious. Too often, supervisors say the right things, then look the other way when workers cut corners, or even worse, set a bad example by cutting corners themselves. It's tempting, I know. It may take an extra 10 minutes out

of what is already a hectic day to go to your truck and put on your harness when you have to climb out onto a beam to inspect the surface prep at a connection. It's way too easy to just say it's only a few feet past the handrails and I'll only be out there a few minutes. But the message you send to your crews is deadly. All the good information and effort goes out the window when you show by example that compliance really doesn't matter when the work really needs to get done.

Fall protection anchorages can be difficult to evaluate and locate, especially when you try to provide complete coverage. But 100% protection means workers can always be tied off, no exceptions. Providing options for special situations and configurations, such as painting over water, takes planning (Fig. 5). A few reminders:

- 100% fall protection requires dual lanyards; clip before you unclip. 100% fall protection means you are always connected.
- Keep hands free when climbing ladders – three point contact rule, two feet and one hand, or two hands and one foot means you can't carry tools and equipment up a ladder. Use a tool belt for tools and haul supplies up to higher locations with a hand line.

Fall Protection

- Elevated work platforms are often a good option—manlifts, scissor lifts, or suspended platforms. Manlifts or aerial boom lifts must have level stable support and require workers to be tied off to the basket.

Construction crews these days are often multi-ethnic. Language barriers can cause significant barriers to proper instruction and training, or emergency communication. Having workers with English as a second (or non-existent) language means adjusting training programs, warning signs, and field communications. Make sure your supervisors can communicate with all their workers. It may be easy to say everyone on the crew is expected to read and understand English, but that does not make it so.

Painters also have some special challenges that may not be obvious at first. In order to properly inspect fall protection equipment, and this includes scaffold planks and ladders in addition to harnesses and lanyards, the person inspecting them must be able to see the surface of the material to note deterioration and damage. Cracks, abrasion damage, torn threads or wires, warning yarns, and evidence of heat or corrosion are signs of damage but may be hidden by overspray or dirt and dust embedded in the surface. Moreover, paints and solvents or caustic strippers may actually chemically damage organic fibers (manila, hemp, nylon, or polyester), and grit and dust may physically damage wire ropes and other moving parts of rigging and lifting equipment. OSHA regulations require that wooden scaffold planks and ladders

remain unpainted. Inadvertent painting with overspray is just as bad as intentional painting (also prohibited by OSHA) if it obscures the surface and prevents inspection.

Remember, falls that can injure or kill don't just occur at great heights. Slips, Trips and Falls at the same level can be just as devastating. When planning and inspecting your projects, pay particular attention to walkways and travel paths. They are not locations for storing materials, running cords and hoses, or places to accumulate abrasives and debris. Keep pathways clear and free of obstructions and trip hazards. If possible, elevate and secure cords and hoses so that workers don't have to step on or around blast hoses and paint lines. If electrical cords are secured overhead, make sure non-metallic zip-ties or ropes are used, not tie wires or metal clamps. In cold weather work locations, prevent the accumulation of ice and snow in walk paths. Keep abrasives vacuumed up and immediately clean up any spills of paints, fuels, or lubricants.

Related risks when working at elevations include:

- Falling objects: use proper toeboards on scaffolding and platforms or containment (i.e., nets underneath them) to protect workers and the public below. Secure planks, tools, and equipment from being dislodged by other workers, wind or moving equipment. Secure lifted loads and keep workers out from under the path of overhead suspended loads.
- Where there is a risk of a fall, consider the path that a falling worker might

take before being stopped by their fall arrest equipment. Try to eliminate hazards from swing falls, protruding objects such as rebar (protective caps) and always consider how a suspended worker can be promptly rescued.

- When working on slopes consider the stability of footing, the angle, and the work tasks. Safety lines with rope grabs or retractables may be appropriate for work on pipes or steel structures, even if not elevated, if they occur on hillsides or adjacent to or entering excavations.

Conclusion

It's all about planning. Don't expect your fall protection plans to just evolve based on what you find when you get there. Adjustments and flexibility are always part of an effective plan, but your fall protection can't be effective if it's all just done on the fly. You may find workers flying (briefly) and that's not a good thing. Especially the landing.

This article is intended to be an overview and does not take the place of reading, understanding, and properly implementing all regulations for protecting workers against falls.

Notes

1. www.osha.gov/SLTC/etools/construction/falls/mainpage.html
2. www.nsc.org/Pages/OSHAReportsonTop10SafetyViolationsfor2009.aspx
3. www.dir.ca.gov/title8/3203.html



Robert Ikenberry, PCS, is a Project Manager and Corporate Safety Director for California Engineering Contractors, Inc., of Pleasanton, CA, with

35 years experience on protective coatings projects and construction management. He has been a contributing editor for *JPCL* for over a decade, and a member of SSPC for over 20 years.

JPCL

Fall Protection Links

SSPC Technology Guide No. 17- "Guide to Developing a Corporate Safety Program for Industrial Painting and Coating Contractors:

<http://www.sspc.org/standards/guidescopes.html> (membership required to download)

OSHA Fall Protection eTool: <http://www.osha.gov/SLTC/etools/construction/falls/mainpage.html>

Harness & Lanyard inspection criteria – what to look for:

http://www.osha.gov/Region7/fallprotection/fall_protection_info.html



Painters Council Adds SSPC C-12 to Training Offerings

Last winter, the Painters District Council #2 Training Program added SSPC C-12, Airless Spray Basics, to its training offerings. For the past ten years, C-3, Lead Paint Removal; C-5, Lead Paint Removal Refresher; and C-7, Abrasive Blasting Program, have been offered.

According to the Painters District

Council #2, students benefit from taking the class. Proper spray techniques and safety procedures are reinforced, and the certification acknowledges the students' ability to calculate and confirm proper environmental conditions, material mixture, and application of high-performance coatings.

The Council says that while it previ-

ously provided much of the information contained in SSPC training, sponsoring the SSPC classes and partnering with SSPC has added international credibility and recognition to the program. The Council plans to include more SSPC certifications and programs in the future, including the Coating Application Specialist Certification Program (CAS).

SSPC Holds NBPI in Singapore

SSPC held its NAVSEA Basic Paint Inspector Course (NBPI) April 12–16 in Singapore for the U.S. Navy-Commander Logistics Group Western Pacific. Eight students participated, and the course was led by Tom Jones and Terry New.

Three Achieve SSPC PCS Certification

Atousa Pourfard (Boucherville, QC, Canada), Jing Zeng (Houston, TX), and Philip Nickels (Muskogee, OK) have been certified as Protective Coatings Specialists (PCS).



Atousa Pourfard

SSPC's PCS Certification recognizes industrial coating professionals for their extensive knowledge in the principles and practices specific to industrial coatings technology. Each professional is evaluated on his/her mastery of coatings type, surface preparation, coatings application and inspection, contract planning/management, development of specifications, and the economics of protective coatings.

To be certified under the PCS Certification Program, each professional is first evaluated for their education and work experience to



Philip Nickels



Jing Zeng

determine the extent of training to be completed prior to taking the written exam. The training courses are SSPC- C1, Fundamentals of Protective Coatings for Industrial Structures, and SSPC-C2, Specifying and Managing Protective Coating Projects. The final step is a comprehensive examination of the coating professional's use and knowledge in those areas.

Pourfard, Zeng, and Nickels have all been trained in the

evaluation and selection of coating, lining, and non-metallic materials. They are all knowledgeable in failure analysis, on-site audits for coating/lining work, and writing technical specifications for offshore maintenance coating work.

SSPC Seeks Structure Award Nominations for 2010–2011

SSPC is accepting nominations from the membership for the annual Structure Awards. The awards are given to recognize the work of teams of contractors, designers, end users, and coating manufacturers for excellence on particular coatings projects. The awards will be handed out at the SSPC 2011 Conference, featuring GreenCOAT at the Mandalay Bay in Las Vegas. In recognition of the importance of the Structure Awards, they will be given out at the Awards Luncheon on Monday, January 31. The winning structures will also be featured in a photo essay in the *JPCL* after the conference.

SSPC is looking for nominations for all types of structures: bridges, tanks, concrete structures, industrial, or commercial facilities. The descriptions of the Structure Awards are listed below. Except for the longevity award, work on the structures must have been completed between July 1, 2009 and June 30, 2010. If you have any questions or if you want a copy of the nomination form, please contact Terry Sowers, Director of Member Services, at 1-877-281-7772, extension 2219 or e-mail sowers@sspc.org.

SSPC must receive your submission by October 30, 2010.

Please note that a representative of the Structure Owner must be willing to attend the SSPC 2011 Conference to accept the award and give permission for the information to appear in the *JPCL* Photo Essay.

Crone Knoy Award

For outstanding achievement in commercial or industrial coatings work that demonstrates innovation, durability, or

utility.

The qualities that may represent outstanding achievement in this area include excellence in craftsmanship or execution of work, use of state of the art techniques or products to creatively solve problems or provide long-term service.

Charles G. Munger Award

For the outstanding industrial or commercial coatings project demonstrating longevity of the original coating.

The structure may have had spot repairs or overcoating with the original coating still intact.

William Johnson Award

For outstanding achievement demonstrating aesthetic merit in industrial or commercial coatings work.

The qualities that are considered for aesthetic merit include color, gloss, or texture, or that the coating on the structure compliments the environment while enhancing the structure itself. The coating may represent a theme, an object, or a specific graphic design.

George Campbell Award

For outstanding achievement in the completion of a difficult or complex industrial or commercial coatings project.

The qualities that may represent achievement in a difficult or complex structure may include work occurring in harsh or extreme environmental conditions; work completed under strict time constraints; work done with limited access or in high traffic areas; work on a structure with complex structural components; or lastly a project that requires coordination with multiple trades or subcontractors.

Another Smart Way to Reach SSPC

Need to get to SSPC's website when you're not at your computer? If you have a smart phone, download any barcode app; point your phone's camera at the barcode below; and, when prompted by your phone screen, click to continue.

You'll find yourself at www.sspc.org, where you can find out about SSPC's training programs; SSPC's new conference, featuring GreenCOAT 2011; and all of SSPC's other programs and offerings.

If you don't have a smart phone, you can still reach SSPC through its website, www.sspc.org; by phone: 877-281-7772 or 412-281-2331; fax: 412-281-9992; or regular mail: 40 24th St., 6th Floor, Pittsburgh, PA 15222.



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Dunkin & Bush Certified as Woman-Owned Company

Dunkin & Bush Inc., a Kirkland, Wash.-based business specializing in industrial coatings contracting and related services, announced that it has received national certification as a Women's Business Enterprise by the Women's Business Enterprise National Council (WBENC).

The designation makes Dunkin & Bush one of the few protective and industrial coatings companies to be certified as a woman-owned enterprise.

WBENC's national standard of certification mandates a meticulous process including an in-depth review of the business and site inspection. The certification process is designed to confirm the business is at least 51% owned, operated, and controlled by a woman or women.

By including women-owned businesses among their vendors, corporations and government agencies demonstrate their commitment to fostering diversity and the continued development of their supplier/vendor diversity programs, Dunkin & Bush said.

WBENC is the nation's largest third-party certifier of businesses owned and operated by women in the U.S. The WBENC is a resource for the more than 700 U.S. companies and government agencies that rely on WBENC's certification as an

integral part of their supplier diversity programs.

A family-owned business since 1943 and now headed by fourth-generation company executive Deidre Dunkin, Dunkin & Bush recently moved to a new corporate headquarters facility in Kirkland, Wash. The company also operates offices in Alaska; Bellingham, Wash.; Oregon; California; Utah; and Hawaii, with a work force of more than 300 craft and support personnel.

The company's industrial services include industrial painting, scaffolding, and insulation, with an extensive client base of private and public customers.

Dunkin & Bush was featured in the Top Contractors report in the April issue of *JPCL*. In the report, Deidre Dunkin related how the company was started in Alaska by her great-grandfather, C.O. Dunkin, who had actually gone there to start



Deidre Dunkin

a Baptist mission. The company expanded from its Alaska origins under C.O. Dunkin's son, Tom, and then under the leadership of Tom Dunkin II, Deidre's father. Currently, the company serves customers in Alaska; the West Coast including California; Hawaii; and other states west of the Rockies.

Another Dunkin family member is also a company executive—Project Manager Tom Dunkin III, Deidre's brother.

Euclid Chemical Marks Centennial Milestone

The Euclid Chemical Company, a global provider of specialty concrete and masonry construction products, is marking its 100th year of service to building material suppliers.

Euclid Chemical is wholly owned by RPM International Inc., a \$3.5 billion publicly traded corporation based in Medina, Ohio.

The company was originally established as the Klein Building Products Company in 1910. Founder Jacob Klein developed and distributed waterproofing and concrete-additive products in the Cleveland, Ohio, area. The company became known as The Euclid Chemical Company and its "Euco Method" recog-

nized as an industry standard. Klein's partner, Lawrence Korach, became the sole owner and president in 1951. Korach led Euclid Chemical until 1984, when he retired as president and sold the company to RPM.

Jet Edge Names New Zealand Distributor

Jet Edge Inc. (St. Michael, Minn.), a manufacturer of ultra-high-pressure waterjets for precision cutting, coating removal, and surface preparation, has appointed MatCamNZ as waterjet systems distributor for New Zealand.

Based in Glenfield, New Zealand, MatCamNZ is a supplier of machine tools to the New Zealand metal-cutting industry with a 20-year track record of

extensive experience with waterjet technology.

For more information, visit www.matcamnz.com or www.jetedge.com.

Hempel Opens Manufacturing Site in Poland

Hempel, the Denmark-based producer of protective, marine, and decorative coatings, announced the opening of a new manufacturing facility near Buk, Poland.

The company said the site complies fully with all EU legislation on health, safety, and the environment.

The factory also is reported to feature a design that will have minimal impact on the environment, with no industrial

wastewater generation and minimal release of emissions.

products

Blastrac Introduces Global Shot Blaster Line

Blastrac NA (Oklahoma City, Okla.) introduced the Global Shot Blasters line of surface-preparation machines for stripping, cleaning, and profiling of concrete, steel, and asphalt surfaces.

The series—the 1-8DPS30, 1-10DS Global, 1-15DS Global, and the 2-20DT Global—are self-propelled, walk-behind units that are maneuverable in forward and reverse. The machines offer production rates ranging from 450 to 4,850 square feet per hour, are virtually dust-free when connected to dust-collector systems, and operate as a one-step process. The machines strip coatings, line stripings, and compounded residues, and leave the surface clean, dry, and profiled, the company says.

The 1-10DS and 1-15DS Global machines are equipped with dual-voltage motors with auto-sensing technology. All electrical components are UL certified. The larger 1-15DS and 2-20DT machines carry quick-lift rear caster

assemblies that are actuated with the precision leverage bar that stores onboard the units, and the series is equipped with heavy-duty castors and drive wheels.

More information: www.blastrac.com

International Rolls Out Cargo-Hold Coating

International Paint Ltd. introduced Intershield®803Plus, a cargo-hold coating specifically designed to address the issue of impact damage from the loading of dry bulk cargoes.



The coating is reported to offer superior impact and abrasion resistance, good corrosion protection, VOC compliance with 75% volume solids, fast drying times, and year-round workability. The cured coating is characterized by a smooth surface for easy cleaning, is certified for the transport of grain, and is FDA compliant, said Rob Taylor,

International Paint market manager of bulk carriers.

Larson Expands Spray-Booth Light Offerings

Larson Electronics' magnalight.com has expanded its line of explosion-proof lights with UL 844 Class 1 Division 1 paint spray-booth lights, offered in 4-foot and 2-foot lengths and reported to combine bright light output, color temperature control, and five-year bulb life. The lights can be configured with two or four LED tube lights for optimal area coverage.

The EPL-48-2L-LED and EPL-48-4L-LED are the 4-foot versions of the lights, and the EPL-24-2L-LED is the 2-foot configuration. These LED lights feature both surface and pendant mounting options. Wheeled-cart options offer operators the ability to move the paint spray booth lights in and around the hazardous location area to suit the particular coating application.

The LED lights are reported to reduce operating costs, and are UL certified for flammable vapors and dusts, making them suitable for all types of manufacturing and processing, the company says. Uses include applications where UV is not permissible.

Visit www.magnalight.com for more information.

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www.sprayclaims.com

S&K to Recoat Two Moveable Bridges

By Julie Birch and Alyssa Gallagher, PaintSquare

The Oregon Department of Transportation awarded a contract of \$4,841,060 to S&K Painting, Inc. (Clackamas, OR) to clean and recoat structural steel surfaces on two moveable bridges on the Pacific coast. The Bullards Bridge (pictured), a vertical lift bridge, carries US 101 over the Coquille River and is 702 feet long by 26 feet wide. The bascule bridge over the South Slough measures 1,194 feet long by 40 feet wide and allows fishing boats to access the processing facilities on the east side of the Charleston Boat Basin.



Photo courtesy of Michael J.W. Goff

The steel will be abrasive blast cleaned to a Near-White finish (SSPC-SP 10) and recoated with a moisture-cured urethane system. The contract includes full containment of the existing coatings, some of which contain lead. The project

also includes solvent cleaning stainless steel surfaces and performing repairs. The contractor is responsible for providing a NACE-certified coatings inspector to perform inspection services.

SCR Wins Queen Isabella Causeway Coating Contract



Photo courtesy of TxDOT

The Texas Department of Transportation let a contract of \$3,235,600 to SCR Construction Company, Inc. (Richmond, TX) to recoat the Queen Isabella Causeway. The longest bridge in Texas, this 2.37 mile-long steel stringer structure is the only route connecting South Padre Island to

the mainland. The project includes cleaning and recoating structural steel using a zinc-rich primer and a urethane topcoat, as well as performing repairs to 20 diaphragms, nine truss sway braces, and one girder. The project also includes zinc cathodic protection system installation. SCR subcontracted S&S Painting (Kerrville, TX), SSPC-QP 1- and QP 2-certified, to perform a portion of the coating work.

Amstar of Western New York to Recoat Trunk Sewer Bridge Crossings

The Mattabassett District awarded a contract of \$447,000 to Amstar of Western New York, Inc. (Cheektowaga, NY) to clean and recoat structural steel surfaces on two trunk sewer bridge

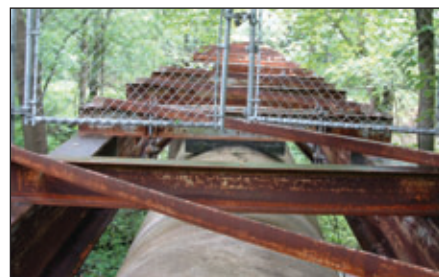


Photo courtesy of the Mattabassett District

crossings in Cromwell, CT. Located at Sebethe Drive and White Oak Drive, the crossings are 260 feet and 170 feet long. The steel will be abrasive blast cleaned to Near-White finish (SSPC-SP 10) and coated with a zinc-rich primer, an epoxy intermediate, and a polyurethane finish. The project includes containment of the existing lead-bearing coatings within a Class 1 containment structure (SSPC-Guide 6.) The contract, which requires SSPC-QP 1 and QP 2 certifications, also includes furnishing a NACE-certified coatings inspector to perform inspection services.

Project Preview details coating contracts from the Paint BidTracker lead service. Sign up for a free trial at www.paintsquare.com/bidtracker/trial or use the bar code scanner app on your smart phone:



2010 Equipment Buying Guide

The 2010 Equipment Buying Guide lists equipment and related supplies for protective and marine coating work from more than 360 manufacturers, distributors, and rental companies. The purpose of the Guide is to help users identify sources of equipment and supplies for protective and marine coatings operations.

The Guide is divided into eight categories, and the types of products within each category are listed alphabetically. On p. 42, you will find the Table of Contents, which you can use to look up generic products and equipment by any of eight general categories: Surface Preparation; Application; Inspection; Environmental Control; Climate Control; Access; Safety; and Laboratory Testing. Within each category, appropriate products are listed alphabetically.

On p. 43, you will find the Index to the Buying Guide, which you can use to look up generic products and equip-

ment on a single alphabetized list. To contact companies about their products, consult the Equipment Company Profiles, which begin on p. 112.

In the Guide itself, which begins on p. 44, companies either displayed in boldface type or accompanied by boxed display ads have paid an advertising fee. Otherwise, a company's information appears free of charge.

The Guide is based on data obtained through a survey sent in March 2010 to manufacturers, distributors, and rental companies known to *JPCL*. The print edition of the *JPCL* Guide includes the companies that completed the survey by the deadline for the June 2010 issue. The Guide is also published at www.paintsquare.com, the online home of *JPCL*.

The online edition of the Buying Guide is updated throughout the year, so persons who would like their companies to be included should contact Anita Socci at asocci@protectivecoatings.com.

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ACCESS / EQUIPMENT BUYING GUIDE

▼ BOSUN'S CHAIRS, WORK CAGES

JAD Equipment Co.
Lisbon Hoist, Inc.
Lynx Chain & Cable Inc.
Palfinger systems GmbH
Scaffold Service, Inc.
Sky Climber LLC
Spider, a Division of SafeWorks
The Warehouse Rentals and Supplies
Tractel Inc. Fallstop Division

Tractel Inc. Griphoist Division



▼ BUILT-UP AND PORTABLE SCAFFOLDS

Innovative Reach
Layher, Inc.
Palfinger systems GmbH
Rapid Deployable Systems
Safespan Platform Systems, Inc.
Safway Services, LLC
Scaffold Service, Inc.
Sky Climber LLC
Sunbelt Rentals
Tractel Inc. Fallstop Division

▼ CABLE, RIGGING

Eagle Industries
ECS - Environmental Containment Systems
JAD Equipment Co.
Lisbon Hoist, Inc.
Lynx Chain & Cable Inc.
MHT Access Services Inc.
Safespan Platform Systems, Inc.
Safway Services, LLC
Scaffold Service, Inc.
Sky Climber LLC
Swing-Lo Suspended Scaffold Company
Tractel Inc.

▼ LADDERS

Absolute Equipment/Grand Rental Station
Innovative Reach
Layher, Inc.
Scaffold Service, Inc.
Sunbelt Rentals
The Warehouse Rentals and Supplies
Tractel Inc. Fallstop Division

▼ LIFTS

Able Equipment Rental
Absolute Equipment/Grand Rental Station
ECS - Environmental Containment Systems
Genie Industries
Innovative Reach
Lisbon Hoist, Inc.
LPI Incorporated
Palfinger systems GmbH
Safway Services, LLC
Sunbelt Rentals
Tractel Inc. Fallstop Division

▼ PLATFORMS

Advanced Recycling Systems
Bridge Platforms Inc.
Eagle Industries
ECS - Environmental Containment Systems
Genie Industries
Innovative Reach
Layher, Inc.
Lisbon Hoist, Inc.
LPI Incorporated
Palfinger systems GmbH
Rapid Deployable Systems
Safespan Platform Systems, Inc.
Safway Services, LLC
Scaffold Service, Inc.
Sky Climber LLC
Spider, a Division of SafeWorks
Sunbelt Rentals
Swing-Lo Suspended Scaffold Company
Tractel Inc.

▼ SUSPENDED SCAFFOLDS

Bridge Platforms Inc.
Eagle Industries
ECS - Environmental Containment Systems
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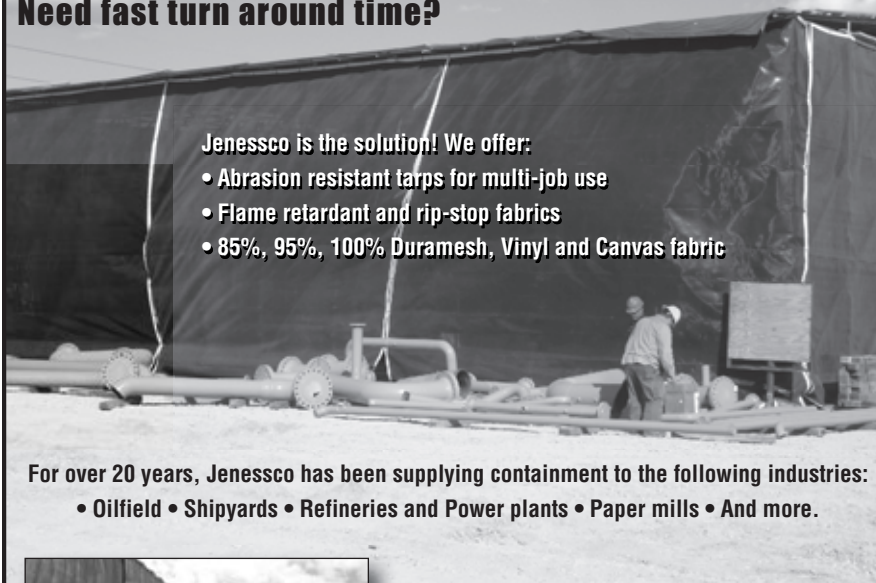
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▼ **AIR COMPRESSORS**

Able Equipment Rental
Absolute Equipment/Grand Rental Station
AirTight Marketing & Distribution
Arma Coatings
CESCO
Doosan Portable Power
EnDiSys
Equipment Development Co., Inc.
Hi-Tec Spray Ltd.
HoverTrowel, Inc.
Jenny Products, Inc.
Metal Finishing Systems
Midwest Surface Prep, LLC
NOREXCO S.A.
PWM (Sales) Ltd.
Ring Power Corporation
Sil Industrial Minerals, Inc.
Sunbelt Rentals
Surface Prep Supply
The Warehouse Rentals and Supplies
Van Air Systems

▼ **BRUSHES**

APE-X Innovative Tools, LLC
CESCO
Corona Brushes Inc.
D'Angelo Industrial Coatings
Dynamic Paint Brushes & Roller
Eagle Industrial Equipment, Inc.
Hydraflow
Imperial Paint Applicator
INDCO, Inc.
JAD Equipment Co.
Marco

Paint Brush Corporation
Paul N. Gardner Co., Inc.
Prep Tec
Purdy
Ryno Tools Supply Co.
Sil Industrial Minerals, Inc.
Spray-Quip, Inc.
T Tex Industries LP
The Warehouse Rentals and Supplies
The Wooster Brush Company
United Abrasive, Inc.

▼ **DRUMS**

Airtec AG
INDCO, Inc.
Midwest Surface Prep, LLC
Paul N. Gardner Co., Inc.
The Warehouse Rentals and Supplies

▼ **EXTENSION POLES**

Bittner's Spray Equipment Co.
CESCO
Corona Brushes Inc.
Corrosion Specialties Inc.
D'Angelo Industrial Coatings
Dynamic Paint Brushes & Roller
Eagle Industrial Equipment, Inc.
Eco-Strip LLC
Graco Inc.
HydeTools, Inc.
Hydraflow
Imperial Paint Applicator
Interstate Supplies & Services
JAD Equipment Co.
Marco
Michigan Power Cleaning
Midwest Rake Company LLC

Mr. LongArm, Inc.
NOREXCO S.A.
Prep Tec
Purdy
Ryno Tools Supply Co.
Spray Equipment & Service Center
Spray-Quip, Inc.
T Tex Industries LP
The Warehouse Rentals and Supplies
The Wooster Brush Company
Titan Tool
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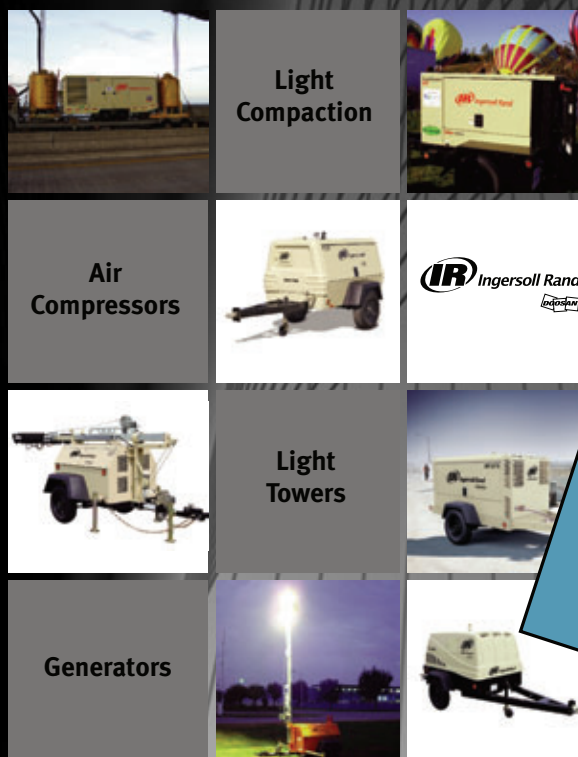
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Prep Tec
PWM (Sales) Ltd.
Quikspray, Inc.
Ryno Tools Supply Co.
T Tex Industries LP
The Warehouse Rentals and Supplies
The Wooster Brush Company

▼ GENERATORS, PORTABLE

Able Equipment Rental
Absolute Equipment/Grand Rental Station
Air Conditioner Rental and Leasing Inc.
Ally Equipment, LLC
Concrete Polishing Solutions
Doosan Portable Power
DRYCO
EnDiSys
Genie Industries
L.M. Temperature Control Inc.
Ring Power Corporation
Ryno Tools Supply Co.
SIE Industrial Ltd.
Sil Industrial Minerals, Inc.
Sunbelt Rentals
Surface Prep Supply
The Warehouse Rentals and Supplies

▼ HEATERS FOR SPRAY PUMPS AND HOSES

AirTech Spray Systems, Inc.
AirTight Marketing & Distribution
Arma Coatings
Bittner's Spray Equipment Co.
CESCO
Corrosion Specialties Inc.
Covercat Inc./England
D'Angelo Industrial Coatings
EnDiSys

Graco Inc.
Hi-Tec Spray Ltd.
Hydraflow
JAD Equipment Co.
Marco
SIE Industrial Ltd.
Spray Equipment & Service Center
Spray-Quip, Inc.
T Tex Industries LP
The Warehouse Rentals and Supplies

▼ MASKING TAPE AND RELATED MATERIALS

CESCO
D'Angelo Industrial Coatings
Dynamic Paint Brushes & Roller
Hydraflow
Imperial Paint Applicator
JAD Equipment Co.
Metal Finishing Systems
Metallisation Ltd.
Midwest Surface Prep, LLC
Ryno Tools Supply Co.
SIE Industrial Ltd.
T Tex Industries LP
The Warehouse Rentals and Supplies
Trimaco, LLC

▼ MITTS

CESCO
Corona Brushes Inc.
D'Angelo Industrial Coatings
Dynamic Paint Brushes & Roller
Eagle Industrial Equipment, Inc.
Imperial Paint Applicator
JAD Equipment Co.
Reaves & Company, Inc.
Sil Industrial Minerals, Inc.
Spray-Quip, Inc.

T Tex Industries LP
The Warehouse Rentals and Supplies
Trimaco, LLC

▼ MIXERS AND AGITATORS

AirTech Spray Systems, Inc.
AirTight Marketing & Distribution
Binks
Bittner's Spray Equipment Co.
Blast/Coat Systems, Inc.
BYK-Gardner USA
CESCO
Clemtex
Corrosion Control Products Co.
Corrosion Specialties Inc.
D'Angelo Industrial Coatings
Dispensing Technology Corporation
Dynamic Paint Brushes & Roller
Eagle Industrial Equipment, Inc.
EMI, Inc.
EnDiSys
Graco Inc.
Hi-Tec Spray Ltd.
HoverTrowel, Inc.
HydeTools, Inc.
Hydraflow
I.C.T.C. Holdings - HERO Products Group
Imperial Paint Applicator
INDCO, Inc.
JAD Equipment Co.
Marco
Mr. LongArm, Inc.
NORESCO S.A.
Paul N. Gardner Co., Inc.
Premier Mill
PWM (Sales) Ltd.
Quikspray, Inc.
Red Devil Equipment
Ryno Tools Supply Co.
SIE Industrial Ltd.
Sil Industrial Minerals, Inc.
SPE GROUP
Specialty Products, Inc. (SPI)
Spray Equipment & Service Center
Spray-Quip, Inc.
Surface Preparation-Texas, LLC
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▼ PAINT POTS FOR SPRAY PAINTING

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EnDiSys
Hydraflow
Imperial Paint Applicator
Interstate Supplies & Services
JAD Equipment Co.

APPLICATION / EQUIPMENT BUYING GUIDE

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Mattson Spray Equipment
NOREXCO S.A.
Pan Abrasives Group
SIE Industrial Ltd.
Spray Equipment & Service Center
Spray-Quip, Inc.
Surface Preparation-Texas, LLC
T Tex Industries LP
The Warehouse Rentals and Supplies
Titan Tool
WIWA Wilhelm Wagner LP

▼ PIPE, INTERNALS, APPLICATION EQUIPMENT

AirTech Spray Systems, Inc.
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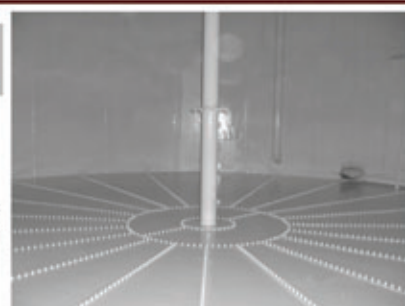
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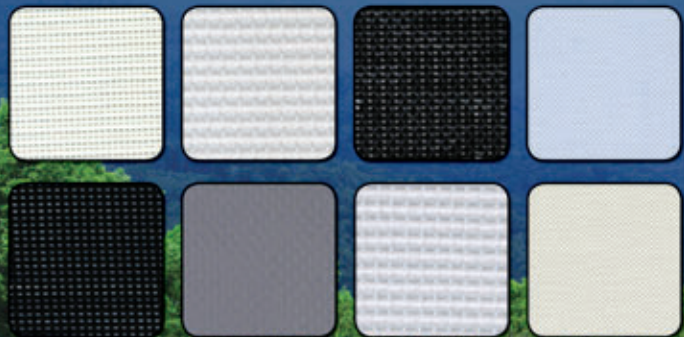


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T Tex Industries LP
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Corrosion Specialties Inc.
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ICM - International Climbing Machines
Instrument Sales, Inc./a GPI Company
KTA-Tator, Inc.
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Paul N. Gardner Co., Inc.
TQC Thermimport Quality Control
V. V. Mineral

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CSM Instruments
DeFelsko Corporation
Elcometer Inc.
Instrument Sales, Inc./a GPI Company
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DeFelsko Corporation
Elcometer Inc.
ElektroPhysik Dr. Steingroever GmbH&Co. KG
Fischer Technology, Inc.
Gamry Instruments, Inc.
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Metal Samples
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▼ ELECTROCHEMICAL IMPEDANCE TESTERS

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Instrument Sales, Inc./a GPI Company
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KTA-Tator, Inc.
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PCWI International Pty. Ltd.
Stone Tucker Instruments Inc.
T Tex Industries LP
Testcoat Inc.
TQC Thermimport Quality Control

▼ TEST CABINETS, CLEVELAND CONDENSING

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Q-Lab Corporation

▼ TEST CABINETS, CONTINUOUS SALT SPRAY

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Paul N. Gardner Co., Inc.
Q-Lab Corporation
TQC Thermimport Quality Control

▼ TEST CABINETS, CONTROLLED HUMIDITY

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CSM Instruments
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▼ TEST CABINETS, CYCLIC IMMERSION

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EnDiSys
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SIE Industrial Ltd.
Surface Prep Supply
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Pan Abrasives Group
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Dynamic Paint Brushes & Roller
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Marco
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Sperian Protection
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▼ ELECTRICAL PROTECTION, GROUND FAULT CIRCUIT INTERRUPTERS

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EnDiSys
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Sil Industrial Minerals, Inc.
Spray-Quip, Inc.
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▼ EYE PROTECTION

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Clemtex
Dynamic Paint Brushes & Roller
Imperial Paint Applicator
Instrument Sales, Inc./a GPI Company
Kleenblast Abrasives & Equipment
Marco
Metal Finishing Systems
Midwest Surface Prep, LLC
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Sil Industrial Minerals, Inc.
Sperian Protection
Spray-Quip, Inc.
Surface Preparation-Texas, LLC
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▼ NETS

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Eagle Industries
MHT Access Services Inc.
Scaffold Service, Inc.
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All Jetting Technologies, Inc.
Blast/Coat Systems, Inc.
CESCO
Clemco Industries Corp.



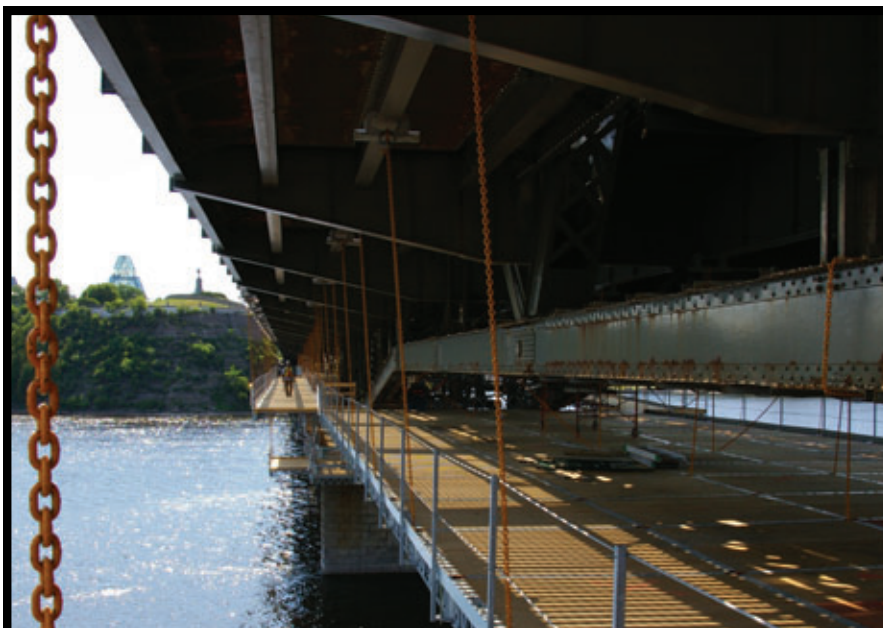
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 Clemtex
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 Draeger
 Dynamic Paint Brushes & Roller
 Eagle Industries
 Hi-Tec Spray Ltd.
 Imperial Paint Applicator
 Instrument Sales, Inc./a GPI Company
 Marco
 Metal Finishing Systems
 Midwest Surface Prep, LLC
 MSA
 N.T. Ruddock Co.
 NOREXCO S.A.
 Pan Abrasives Group
 RPB Respiratory
 Ryno Tools Supply Co.
 Scaffold Service, Inc.
 SIE Industrial Ltd.
 Sperian Protection
 Spray-Quip, Inc.
 Surface Preparation-Texas, LLC
 T Tex Industries LP
 The Warehouse Rentals and Supplies
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▼ RESPIRATORS, POWERED AIR PURIFYING, CARTRIDGE-TYPE

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 Blast/Coat Systems, Inc.
 Bullard
 CESCO
 Clemtex

Corrosion Specialties Inc.
 Draeger
 Eagle Industries
 EnDiSys
 Hi-Tec Spray Ltd.
 Instrument Sales, Inc./a GPI Company
 Marco
 Metal Finishing Systems
 Midwest Surface Prep, LLC
 MSA
 N.T. Ruddock Co.
 NOREXCO S.A.
 Pan Abrasives Group
 Ryno Tools Supply Co.
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 SIE Industrial Ltd.
 Sperian Protection
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▼ RESPIRATORS, TYPE CE, SUPPLIED-AIR, FULL FACE ONLY

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 Arma Coatings
 Blast/Coat Systems, Inc.
 CESCO
 Clemtex
 Corrosion Specialties Inc.
 Draeger
 Eagle Industries
 EnDiSys
 Hi-Tec Spray Ltd.
 Instrument Sales, Inc./a GPI Company
 Kleenblast Abrasives & Equipment
 Marco
 Metal Finishing Systems
 Midwest Surface Prep, LLC
 MSA
 NOREXCO S.A.
 Pan Abrasives Group
 RPB Respiratory
 Ryno Tools Supply Co.
 Scaffold Service, Inc.
 SIE Industrial Ltd.
 Sil Industrial Minerals, Inc.
 Sperian Protection
 Spray Equipment & Service Center
 Spray-Quip, Inc.
 Surface Preparation-Texas, LLC
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▼ RESPIRATORS, TYPE CE, SUPPLIED-AIR, HOOD/HELMET WITH CAPE

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 AirTech Spray Systems, Inc.
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 Blast/Coat Systems, Inc.
 Bullard

CESCO
 Clemco Industries Corp.



Clemtex
 Corrosion Specialties Inc.
 Draeger
 Eagle Industries
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 Gritco Equipment B.V.
 Hi-Tec Spray Ltd.
 Instrument Sales, Inc./a GPI Company
 Kleenblast Abrasives & Equipment
 Marco
 Metal Finishing Systems
 Midwest Surface Prep, LLC
 MSA
 N.T. Ruddock Co.
 NOREXCO S.A.
 Norton Sandblasting Equipment



Pan Abrasives Group
 RPB Respiratory
 Ryno Tools Supply Co.
 Scaffold Service, Inc.
 SIE Industrial Ltd.
 Sil Industrial Minerals, Inc.
 Sperian Protection
 Spray Equipment & Service Center
 Spray-Quip, Inc.
 Surface Prep Supply
 Surface Preparation-Texas, LLC
 T Tex Industries LP
 The Warehouse Rentals and Supplies
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SIE Industrial Ltd.
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Virginia Materials, Inc.

▼ ABRASIVE ADDITIVES, OTHER (or see HAZARDOUS WASTE STABILIZERS)

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Enviro-Prep System - a product of hci
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Sil Industrial Minerals, Inc.
The Andersons, Inc.
The TDJ Group, Inc.
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Blastmaster Australia
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Corrosion Specialties Inc.
Desco Manufacturing Company, Inc.
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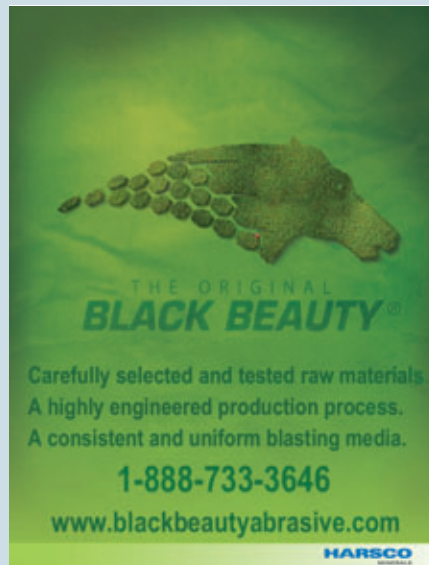
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▼ ABRASIVE, COPPER SLAG

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▼ ABRASIVE, GARNET

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Blast/Coat Systems, Inc.
Blastmaster Australia
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CESCO
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Euroblast Middle East LLC
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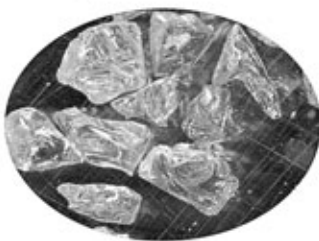
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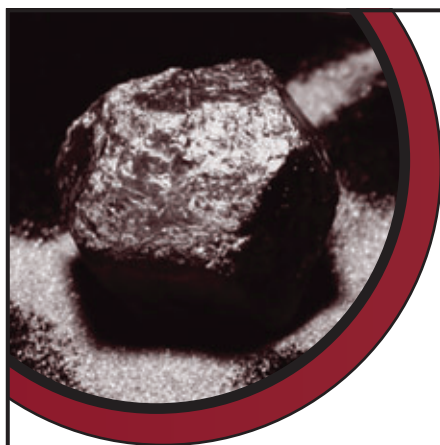
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Ryno Tools Supply Co.
SIE Industrial Ltd.
SPE GROUP
Spray-Quip, Inc.
T Tex Industries LP
The Warehouse Rentals and Supplies
Trelawny Surface Preparation Technology

▼ PUMPS, WATER BLASTING

Aargo Environmental Inc.
Airblast B.V.
All Jetting Technologies, Inc.
Aquablast Ltd.
Bingham Mfg., Inc.
Blasters, Inc.
Blastmaster Australia
Broadbent's Inc.
CESCO
Eagle Industrial Equipment, Inc.
Euroblast Middle East LLC
GapVax, Inc.
Gardner Denver Water Jetting Systems, Inc.
Hammelmann Corp.
Hydraflow
Hydro Pressure Corp.
Imperial Paint Applicator
Instrument Sales, Inc./a GPI Company
Interstate Supplies & Services
Jet Edge
Jetch, Inc.
KMT Aqua-Dyne
LaPlace Equipment Co.
Michigan Power Cleaning
NORESCO S.A.
Norton Sandblasting Equipment
Reliable Pumps Consultants

SIE Industrial Ltd.
SPIR STAR, Ltd.
Spray-Quip, Inc.
Sunbelt Rentals
T Tex Industries LP
The Warehouse Rentals and Supplies
URACA Pumpenfabrik GmbH & Co. KG
WOMA

▼ ROBOTIC BLASTING SYSTEMS, AIR ABRASIVE

1st Canablast
Abrasive Blast Systems, Inc.
Adapt Laser Systems LLC
Advantage SPS, LLC
AGSCO Corp.
Aquablast Ltd.
Blastmaster Australia
Broadbent's Inc.
Corrosion Specialties Inc.
Empire Abrasive Blast Equipment
Gardner Denver Water Jetting Systems, Inc.
Gritco Equipment B.V.
Guyson Corporation
Hammelmann Corp.
Instrument Sales, Inc./a GPI Company
Mec Shot Blasting Equipment PVT. Ltd.
Metal Finishing Systems
Midwest Surface Prep, LLC
Norton Sandblasting Equipment
Pentek, Inc.
Rapid-Prep, LLC
RBW Enterprises, Inc.
Sil Industrial Minerals, Inc.
Straaltechniek International B.V.
Surface Preparation-Texas, LLC
United Abrasive, Inc.
URACA Pumpenfabrik GmbH & Co. KG

▼ ROBOTIC BLASTING SYSTEMS, WATER

Abrasive Blast Systems, Inc.
Adapt Laser Systems LLC
Aquablast Ltd.
Blasters, Inc.
Blastmaster Australia
Flow International
Hydro Pressure Corp.
Instrument Sales, Inc./a GPI Company
Jetch, Inc.
Metal Finishing Systems
Sil Industrial Minerals, Inc.
Straaltechniek International B.V.
VLN Advanced Technologies Inc.
WOMA Corporation

▼ RUST INHIBITORS

Blastmaster Australia
CESCO
CHLOR*RID International Inc.
Corrosion Specialties Inc.
Franmar Chemical, Inc.
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▼ SCARIFIERS, CONVENTIONAL

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Aurand Mfg. & Equipment Co.
Blastmaster Australia
Blastrac
BW Manufacturing
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Desco Manufacturing Company, Inc.
Dickson Industries, Inc.
Equipment Development Co., Inc.
Euroblast Middle East LLC
General Equipment Company
Innovatech Products and Equipment
Instrument Sales, Inc./a GPI Company
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MONTI Tools, Inc.
Norton Sandblasting Equipment
Novatek Corporation
Pentek, Inc.
PWM (Sales) Ltd.
Ryno Tools Supply Co.
Smith Manufacturing
SPE GROUP
SPE-USA
Surface Prep Supply
Surface Preparation-Texas, LLC
The Desmond-Stephan Mfg. Company



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▼ SCREENS, ABRASIVE SEPARATING

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Atlantic Design Inc.
Blast/Coat Systems, Inc.
Corrosion Specialties Inc.
Instrument Sales, Inc./a GPI Company
Metal Finishing Systems
N.T. Ruddock Co.
SodaBlast Systems LLC
Sponge-Jet, Inc.
T Tex Industries LP
The Warehouse Rentals and Supplies

▼ SHOT BLAST MACHINES, PORTABLE, HORIZONTAL

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Advanced Recycling Systems
Airblast B.V.
Airtec AG
Aramco, Inc.
Blastmaster Australia
BlastPro Mfg., Inc.
Blastrac



BW Manufacturing
CESCO
Clemtex
Corrosion Specialties Inc.
Dickson Industries, Inc.
Eagle Industries
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Norton Sandblasting Equipment
Pacific Roller Die Company, Inc.
Pan Abrasives Group
Prep Tec
PWM (Sales) Ltd.
Rapid-Prep, LLC
RBW Enterprises, Inc.
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Sil Industrial Minerals, Inc.
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Surface Prep Supply
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▼ SHOT BLAST MACHINES, PORTABLE, VERTICAL

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Aramco, Inc.

Blastmaster Australia
BlastPro Mfg., Inc.



Blastrac
Clemtex
Corrosion Specialties Inc.
Eagle Industries
Euroblast Middle East LLC
GMA Garnet (Europe) GmbH UK Office
Innovatech Products and Equipment
Instrument Sales, Inc./a GPI Company
Mec Shot Blasting Equipment PVT. Ltd.
Metal Finishing Systems
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Pan Abrasives Group
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RBW Enterprises, Inc.
SIE Industrial Ltd.
Sil Industrial Minerals, Inc.
SodaBlast Systems LLC
SPE GROUP
SPE-USA
Straaltechniek International B.V.
Surface Preparation-Texas, LLC
The Warehouse Rentals and Supplies
US Shotblast Parts & Service Corp.

▼ STEAM CLEANERS

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Blastmaster Australia
CESCO
Hydraflow
Instrument Sales, Inc./a GPI Company
Jenny Products, Inc.
Michigan Power Cleaning
Mi-T-M Corporation
SIE Industrial Ltd.
Spray-Quip, Inc.

▼ VACUUM BLAST SYSTEMS

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Abrasive Blast Systems, Inc.
Advanced Recycling Systems
Advantage SPS, LLC
AGSCO Corp.
Airblast B.V.
Atlantic Design Inc.
Blast/Coat Systems, Inc.
Blasters, Inc.
Blastmaster Australia
BlastPro Mfg., Inc.
Blastrac
CESCO

Clemco Industries Corp.
Clemtex
Corrosion Specialties Inc.
Dalseide Inc.
Eagle Industrial Equipment, Inc.
Eagle Industries
ECS - Environmental Containment Systems
Empire Abrasive Blast Equipment
Euroblast Middle East LLC
Friess Equipment, Inc.
Instrument Sales, Inc./a GPI Company
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.
Marco
Mec Shot Blasting Equipment PVT. Ltd.
Midwest Surface Prep, LLC
MIT Manufacturing
Munkebo Clemco A/S
N.T. Ruddock Co.
NOREXCO S.A.
Norton Sandblasting Equipment
Novatek Corporation
Pan Abrasives Group
Rapid-Prep, LLC
RBW Enterprises, Inc.
SIE Industrial Ltd.
Sil Industrial Minerals, Inc.
SPE GROUP
Straaltechniek International B.V.
Surface Prep Supply
Surface Preparation-Texas, LLC
T Tex Industries LP
The Warehouse Rentals and Supplies
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Vacuum Engineering Group
Vector Technologies Ltd.
Wheelabrator Group

▼ VACUUM EQUIPMENT

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ABC Industries, Inc.
Abrasive Blast Systems, Inc.
Adapt Laser Systems LLC
Advanced Recycling Systems



Advantage SPS, LLC
Airblast B.V.
Airgas Safety
Airtec AG
Atlantic Design Inc.
BGRS, Inc.
Blast/Coat Systems, Inc.
Blasters, Inc.
Blastmaster Australia
BlastPro Mfg., Inc.
Blastrac
BW Manufacturing
CDCLarue Industries, Inc.
CESCO
Clemco Industries Corp.
Clemtex
Concrete Polishing Solutions
Corrosion Specialties Inc.
Dalseide Inc.
Desco Manufacturing Company, Inc.
Eagle Industrial Equipment, Inc.

Eagle Industries
ECS - Environmental Containment Systems
Equipment Development Co., Inc.
Euroblast Middle East LLC
Fortress Environmental Services
GapVax, Inc.
General Equipment Company
Guzzler Manufacturing
Hydro Pressure Corp.
Industrial Vacuum Equipment Corp.
Innovatech Products and Equipment
Instrument Sales, Inc./a GPI Company
Jetch, Inc.
Marco
Mec Shot Blasting Equipment PVT. Ltd.
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Blastmaster Australia
Boatman Industries
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Eagle Industrial Equipment, Inc.
Euroblast Middle East LLC
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▼ WATER BLASTING UNITS, HIGH PRESSURE

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CESCO
Dalseide Shipping Services N.V.
Eagle Industrial Equipment, Inc.
Euroblast Middle East LLC
Flow International
Freemyer Industrial Pressure, LP
GapVax, Inc.
Gardner Denver Water Jetting Systems, Inc.
Global Finishing Solutions
Hammelmann Corp.
Hydraflow
Hydro Pressure Corp.
Imperial Paint Applicator
Instrument Sales, Inc./a GPI Company
Jetechn, Inc.
Jetstream of Houston
KMT Aqua-Dyne
LaPlace Equipment Co.
Michigan Power Cleaning
Mi-T-M Corporation
NLB Corp.
Reliable Pumps Consultants
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▼ WATER BLASTING UNITS, ULTRA-HIGH PRESSURE

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Airblast B.V.
All Jetting Technologies, Inc.

Aquablast Ltd.
Bingham Mfg., Inc.
Blasters, Inc.
Blastmaster Australia
Boatman Industries
Broadbent's Inc.
CESCO
Chariot Robotics LLC
Eagle Industrial Equipment, Inc.
Euroblast Middle East LLC
Flow International
Freemyer Industrial Pressure, LP
GapVax, Inc.
Gardner Denver Water Jetting Systems, Inc.
Global Finishing Solutions
Hammelmann Corp.
Hydro Pressure Corp.
Instrument Sales, Inc./a GPI Company
Jet Edge
Jetechn, Inc.
KMT Aqua-Dyne
LaPlace Equipment Co.
NLB Corp.
Norton Sandblasting Equipment
Reliable Pumps Consultants
Ring Power Corporation
SIE Industrial Ltd.
SodaBlast Systems LLC
T Tex Industries LP
UHP Projects, Inc.
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WOMA

▼ WATER WASHING UNITS, LOW PRESSURE

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Absolute Equipment/Grand Rental Station
Airblast B.V.
All Jetting Technologies, Inc.
Blasters, Inc.
Blastmaster Australia
Boatman Industries
CESCO
Eagle Industrial Equipment, Inc.
Euroblast Middle East LLC
GapVax, Inc.
Global Finishing Solutions
Hydraflow
Instrument Sales, Inc./a GPI Company
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▼ WET BLASTING UNITS (WATER AND ABRASIVE)

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CESCO
Corrosion Specialties Inc.
Euroblast Middle East LLC
Guyson Corporation
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Jetechn, Inc.
LaPlace Equipment Co.
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.
Mec Shot Blasting Equipment PVT. Ltd.
Metal Finishing Systems
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RBW Enterprises, Inc.
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SodaBlast Systems LLC
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1st Canablast

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phone: 514-793-6678
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Coventry, RI 02816
contact: Ron Perry
phone: 800-536-7711
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Abatement Technologies

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www.accumetmaterials.com

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www.adapt-laser.com



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contact: Customer Service
phone: 800-866-8100
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www.airsystems.com

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1700 BB Netherlands
contact: Nick Smith
phone: 31 72 5718002
info@airblast.com
www.airblast.com

Airgas Safety

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Bristol, PA 19007
contact: Stella Karalius
phone: 800-827-2338
stella.karalius@airgas.com
www.airgas.com

Airtac AG

Industriestrasse 40
Zunzgen CH-4455 Switzerland
contact: Thomas Wyser
phone: 41 619769525
tom.wyser@airtec.ch
www.airtec.com

AirTech Spray Systems, Inc.

4303 Pinemont Dr.
Houston, TX 77018
contact: Joe Acosta
phone: 713-681-0013
acosta@airtechspray.com
www.airtechspray.com

AirTight Marketing & Distribution

145 Newborn Road
Rutledge, GA 30663
contact: Ted Medford
phone: 888-527-6552
info@lapolla.com
www.lapolla.com

All Jetting Technologies, Inc.

2740 Martin Downs Blvd., #318
Palm City, FL 34990
contact: Al Sader
phone: 772-286-1218
alljetting@bellsouth.net
www.alljetting.com

Ally Equipment, LLC

3931 Holly St., Ste. B
Denver, CO 80207
contact: Jennifer Hedges
phone: 888-379-3343
jennifer.hedges@allyequip.com
www.allyequip.com

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Elk Grove Village, IL 60007
contact: Tim Heffron
phone: 800-364-4642
tim@americ.com
www.americ.com

American Spray Technologies

1502 22nd St. NW, Unit A
Auburn, WA 98001
contact: Bill Sass
phone: 253-833-4342
info@sprayrig.com
www.sprayrig.com

APE-X Innovative Tools, LLC

2615 Holmes St.
Kansas City, MO 64108
contact: Georg Heidelberg
phone: 816-842-1773
info@ape-x.com
www.ape-x.com

Aquablast Ltd.

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contact: Rick Ervin
phone: 602-740-1414
sales@azic.com
www.azic.com

Arkansas Thermal Spray

PO Box 47 - 1216 Fulbright
Walnut Ridge, AR 72476
contact: Shirley Hitt
phone: 870-759-1775
arthermalspray@wmconnect.com

Arma Coatings

5555 W. 11th Ave.
Eugene, OR 97402
contact: Bruce Johannes
phone: 541-688-3500
bruce@armacoatings.com
www.armacoatings.com

ArmaKleen Company (The)

469 North Harrison St.
Princeton, NJ 08553
contact: Delia L. Downes
phone: 609-497-7220
armex@churchdwight.com
www.armex.com
See our display ad, p. 89.

ARP Instruments, Inc.

83 Autumn Drive
Stafford, VA 22556
contact: Richard Parks
phone: 540-752-7651
info@rpct.net
www.rpct.net

Atlantic Design Inc.

2200 Van Demon St., Ste. 800
Baltimore, MD 21224
contact: Christeen Roden
phone: 866-225-5234
info@calladi.com
www.calladi.com
See our display ad, p. 95.

Atlas Copco

1800 Overview Dr.
Rock Hill, SC 29730
contact: Chuck Westhofen
phone: 803-817-7000
chuck.westhofen@us.atlascopco.com
www.atlascopco.us

Atlas Material Testing Technology

4114 North Ravenswood Ave.
Chicago, IL 60613
contact: Andy Lawrisk
phone: 773-327-4520
info@atlas-mts.com
www.atlas-mts.com

Aurand Mfg. & Equipment Co.

1210 Ellis St.
Cincinnati, OH 45223
contact: Michael Noeth
phone: 800-860-2872
aurand@fuse.net
www.aurand.net
See our display ad, p. 99.

Axxiom Manufacturing

11927 S. Highway 6
Fresno, TX 77545
contact: Sales
phone: 832-295-5200
www.axxiommfg.com
See our display ad, p. 94.

Bacharach, Inc.

621 Hunt Valley Circle
New Kensington, PA 15068
contact: Customer Service
phone: 724-334-5000
help@bacharach.com
www.bacharach-inc.com

Back To Nature Products

28 Harrison Ave., Ste. 238
Englishtown, NJ 07726
contact: Adam Newman
phone: 847-541-5700
adam@backtonatureprod.com
www.backtonatureprod.com

Barton Mines Company, LLC

Six Warren St.
Glens Falls, NY 12801
contact: John Swertner
phone: 800-741-7756
info@barton.com
www.barton.com

BGRS, Inc.

10440 Windfern Rd.
Houston, TX 77064
contact: Marty Boros
phone: 281-890-6862
info@bgrsinc.com
www.bgrsinc.com

Big Top Manufacturing

3255 N. US 19
Perry, FL 32347
contact: G.W. Pridgeon
phone: 800-277-8677
sales@bigtopshelters.com
www.bigtopshelters.com



Bingham Mfg., Inc.
17401 147th S.E.
Monroe, WA 98272
contact: Jeremy Bingham
phone: 360-863-1170
jeremy.bingham@binghammfg.com
www.binghammfg.com

Binks
195 Internationale Blvd.
Glendale Heights, IL 60139
contact: Jim Cardosi
phone: 630-237-5000
info@itwif.com
www.binks.com
See our display ad, p. 51.

Bittner's Spray Equipment Co.
1301 Brummel Ave.
Elk Grove Village, IL 60007
contact: Greg Bittner
phone: 847-364-7661
zbitt@msn.com
www.bsesprayit.com

Blast/Coat Systems, Inc.
9823 Crescent Center Dr.
Rancho Cucamonga, CA 91730
contact: Jim Bossardt
phone: 909-483-4200
info@blastcoat.com
www.blastcoat.com

Blasters, Inc.
7813 Professional Place
Tampa, FL 33637
contact: Scott F. Boos
sales@blasters.net
www.blasters.net

Blastmaster Australia
PO Box 1144, Marleston
South Australia 5033 Australia
contact: Tim Gooden
phone: 618 8292 2000
sales@blastmaster.com.au
www.blastmaster.com.au

BlastPro Mfg., Inc.
6021 Melrose Lane
Oklahoma City, OK 73127
contact: Dave Bigham
phone: 877-495-6464
dbigham@blastpromfg.com
www.blastpromfg.com
See our display ad, p. 104.

Blastrac
13201 North Santa Fe Ave.
Oklahoma City, OK 73114
contact: Customer Service
phone: 800-256-3440
info@blastrac.com
www.blastrac.com

Boatman Industries
7355 Airport Blvd.
Houston, TX 77061
contact: Mike Hensley
phone: 713-641-6006
mike.hensley@boatmanind.com
www.boatmanind.com

Bridge Platforms Inc.
500 New Babcock St.
Buffalo, NY 14206
contact: Taso Hatsios
phone: 716-478-7952
taso@bridgeplatforms.net
www.bridgeplatforms.net

Broadbent's Inc.
39 Industrial Highway
Essington, PA 19029
contact: Jim Broadbent
phone: 610-521-0330
sales@broadbentsinc.com
www.broadbentsinc.com

Buffalo Shrink Wrap Inc.
11358 Main St., PO Box 537
Clarence, NY 14051
contact: James Nawojski
phone: 800-792-8819
jimn@buffaloshrinkwrap.com
www.buffaloshrinkwrap.com

Bullard
1898 Safety Way
Cynthiana, KY 41031
contact: Grant Rowe
phone: 859-234-6611
info@bullard.com
www.bullard.com

BW Manufacturing
3706 Mill Creek Drive NE
Comstock Park, MI 49321
contact: Darrel Miller, Jr.
phone: 616-447-9076
info@bwmanufacturing.com
www.bwmanufacturing.com

BYK-Gardner
9104 Guilford Rd.
Columbia, MD 21046
contact: Karen Nance
phone: 301-483-6500
karen.nance@altana.com
www.byk.com

C & W Specialist Equipment Ltd.
Leintwardine, Craven Arms
Shropshire, SY7 0NB UK
contact: Nigel Cremer
phone: 44 1547 540 654
sales.service@cw-spec.com
www.cw-spec.com

Camfil Farr Air Pollution Control
3505 Airport Rd.
Jonesboro, AR 72401
contact: Lee Morgan
phone: 800-479-6801
filterman@farrapc.com
www.farrapc.com

Carmeuse Industrial Sands
11 Stanwix St.
Pittsburgh, PA 15222
contact: Josie Zihmer
phone: 866-780-0974
salesinfo@carmeuseis.com
www.carmeuseis.com

CDCLarue Industries, Inc.
9384 Ridgeview St.
Tulsa, OK 74131
contact: Customer Service
phone: 866-954-9700
info@cdclarue.com
www.cdclarue.com

Cerbide Inc.
5720 Ellis Road
Orchard Park, NY 14127
contact: Josh Allen
phone: 716-662-0274
info@cerbide.com
www.cerbide.com

CESSCO
7251 Cross County Rd.
N. Charleston, SC 29418
contact: Judy Reid
phone: 843-760-3000
judyr@blastandpaint.com
www.blastandpaint.com

Chambers Power Products, Inc.
3990 Hwy. 30
St. Gabriel, LA 70776
contact: Nick Chambers
phone: 866-534-0239
sales@chamberspowerproducts.com
www.chamberspowerproducts.com

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www.arsrecycling.com

Chariot Robotics LLC

4398 SW Port Way
Palm City, FL 34990
contact: John Odwazny
phone: 772-403-2373
jodwazny@chariotrobotics.com
www.chariotrobotics.com
See our display ad, p. 111.

Chesapeake Specialty Products, Inc.

5055 North Point Blvd.
Baltimore, MD 21219
phone: 410-388-5055
info@chesprod.com
www.chesprod.com

CHLOR*RID International Inc.

PO Box 908
Chandler, AZ 85244
contact: Jim Johnson
phone: 480-821-0039
jjohnson@chlor-rid.com
www.chlor-rid.com
See our display ad, p. 21.

Clean Air Instrument Rental

500 West Wood St.
Palatine, IL 60067
contact: S. Rees
phone: 847-991-3300
srees@cleanair.com
www.cleanair.com

Clemco Industries Corp.

One Cable Car Drive
Washington, MO 63090
info@clemcoindustries.com
www.clemcoindustries.com
See our display ad, p. 75.

Clemtex

248 McCarty
Houston, TX 77029
contact: Gilbert Flores
phone: 713-672-8251
gilbert.flores@clemtex.com
www.clemtex.com

Cold Jet, LLC

455 Wards Corner Rd.
Loveland, OH 45140
contact: Darren George
phone: 513-831-3211
info@coldjet.com
www.coldjet.com

ColorTec & FORMULATOR Software

28 Center St.
Clinton, NJ 08809
contact: J. DeGross
phone: 908-735-2248
sales@color-tec.com
www.color-tec.com

Concrete Polishing Solutions

184 Cedar Place
Norris, TN 37828
contact: Katie Padgett
phone: 877-472-8200
info@go2cps.com
www.go2cps.com

Con-Space Communications

1160 Yew Ave.
Blaine, WA 98231
contact: Alan Jakobsen
phone: 800-546-3405
sales@con-space.com
www.conspace.com

Corona Brushes Inc.

5065 Savarese Circle
Tampa, FL 33634
contact: Benjamin Waksman
phone: 813-885-2525
info@coronabrushes.com
www.coronabrushes.com

Corrosion Control Products Co.

1480 W. Artesia Blvd.
Gardena, CA 90248
contact: Sales Dept.
phone: 800-421-2623
sales@ccppo.com
www.ccpco.com

Corrosion Specialties Inc.

2221 Northmont Pkwy., Ste. 200
Duluth, GA 30096
contact: Matt Steinmann
phone: 770-938-7263
msteinmann@corrosionspec.com
www.corrosionspec.com

Covercat Inc./England

PO Box 1256
Ossining, NY 10562
contact: Michael Wolf
phone: 914-762-8700
sales@covercat.com
www.covercat.com

Crawler

2354 North Lindbergh Blvd.
St. Louis, MO 63114
contact: Mark Chick
phone: 314-428-4804
mark@crawlerusa.com
www.crawlerproducts.com

CRP Industries Inc.

35 Commerce Drive
Cranbury, NJ 08512
contact: Pete Sanquini
phone: 609-578-4100
ps@crpindustries.com
www.crpindustries.com

CSM Instruments

197 1st Ave, Ste. 120
Needham, MA 02494
contact: Nicholas Randall
phone: 781-444-2250
usinfo@csminstruments.com
www.csm-instruments.com

Cucamonga Tool and Eqt. Co. Inc.

PO Box 399
Rancho Cucamonga, CA 91729
contact: Sandy Dincolo
phone: 909-481-4956
cucamongatoolco@yahoo.com
www.cucamongatool.com

Cygnus Instruments Inc.

PO Box 6417
Annapolis, MD 21401
contact: Rod Sanders
phone: 410-267-9771
sales@cygnusinstruments.com
www.cygnusinstruments.com

Cygnus Instruments Ltd.

Cygnus House
30 Prince of Wales Road
Dorchester, DT1 1PW UK
contact: Graham Haines
phone: 44 1305 265533
sales@cygnus-instruments.com
www.cygnus-instruments.com

Dalseide Inc.

2901 West Sam Houston Pkwy. North
Ste. E325
Houston, TX 77043
contact: Kristian Dalseide
phone: 832-203-7170
dssinc@rustibus.com
www.rustibus.com

Dalseide Shipping Services N.V.

Noordersingel 7
Antwerpen, 2140 Belgium
contact: T. Brathen
phone: 32 3227 2096
dssnv@rustibus.com
www.rustibus.com

D'Angelo Industrial Coatings

1114 Industrial Ave.
Oxnard, CA 93030
contact: Chuck
phone: 805-444-6181
cebenes@pacbell.net
www.d-angelopbe.com

DeFelsko Corporation

802 Proctor Ave.
Ogdensburg, NY 13669
contact: David Beamish
phone: 315-393-4450
techsale@defelsko.com
www.defelsko.com
See our display ads, pp. 13, 23, 67.

Dehumidification Technologies, LP

6609 Ave. U
Houston, TX 77011
contact: Brian Battle
phone: 713-939-1166
bbattle@rentdh.com
www.rentdh.com
See our display ad, p. 62.

Desco Manufacturing Co., Inc.

30081 Comercio
Rancho Santa Margarita, CA 92688
contact: Ralph Fabian
phone: 949-858-7400
info@descomfg.com
www.descomfg.com
See our display ad, p. 102.

Detroit Tarp, Inc.

15500 Oakwood Drive
Romulus, MI 48174
contact: Dennis Trezona
phone: 800-457-5054
dennistrezona@hotmail.com
www.detroittarp.com
See our display ad, p. 64.

Diamond Dehumidification Inc.

11927 Windfern Rd.
Houston, TX 77064
contact: John Karklin
phone: 713-681-3449
jkarklin@diamonddh.com
www.diamonddh.com

Dickson Industries, Inc.

PO Box 684
Tecumseh, OK 74873
contact: Wayne Dickson
phone: 405-598-6547
dicksonparts@aol.com
www.roadproonline.com

Dispensing Technology Corp.

5345 N. Commerce Ave., Ste. 1
Moorpark, CA 93021
contact: Bill Howseman
phone: 805-529-7733
sales@dispensingtech.com
www.dispensingtech.com

Doosan Portable Power

1293 Glenway Drive
Statesville, NC 28625
contact: David Stahlman
phone: 800-633-5206
salesinfo@di.doosan.com
www.doosanportablepower.com
See our display ad, p. 47.

Draeger

101 Technology Drive
Pittsburgh, PA 15275
contact: Larry Kilian
phone: 412-787-8383
prodinfo@draeger.com
www.draeger.com

Dresser-Rand COPPUS

Portable Ventilators
299 Lincoln St.
Worcester, MA 01605
contact: John Barkley
phone: 508-595-1700
info@dresser-rand.com
www.dresser-rand.com

Dry Air Technology

313 North Oak St.
Burlington, WA 98233
contact: Lori Buswell
phone: 360-755-9176
lori@dryairtech.com
www.dryairtech.com

DRYCO

1 West Lake St., Unit B
Northlake, IL 60164
contact: Brandon Willis
phone: 866-379-2600
info@drycogroup.com
www.drycogroup.com
See our display ad, p. 56.

Dux Area Inc.

PO Box 1314
Seahurst, WA 98062
contact: Brad Rice
phone: 888-389-2732
brad.rice@duxarea.com
www.duxarea.com

Dynamic Paint Brushes & Roller

7040 Financial Drive
Mississauga, ON L5N 7H5 Canada
contact: Randy Gerrits
phone: 800-668-1124
ppower@dynamicpaintware.ca
www.getpainting.com

Eagle Industrial Equipment, Inc.

230 N. Barrios St.
Lockport, LA 70374
contact: Ben Ledet
phone: 800-621-1511
bledet@eagleie.com
www.eagleie.com

Eagle Industries

PO Box 10652
New Orleans, LA 70181
contact: Philip Calvo
phone: 800-266-8246
pcalvo@eagleind.com
www.eagleind.com
See our display ad, p. 63.

Eco-Strip LLC

1905 B Villardige Drive
Reston, VA 20191
contact: Catherine Brooks
phone: 703-476-6222
cbrooks@eco-strip.com
www.eco-strip.com

ECS - Environmental Containment Systems

148 Mill Rock Road East
Old Saybrook, CT 06475
contact: Susan Bogan
phone: 860-395-4760
susan@ecsone.com
www.ecsone.com

Elcometer Inc.

1893 Rochester Industrial Dr.
Rochester Hills, MI 48309
contact: Joseph Walker
phone: 800-521-0635
sales@elcometerusa.com
www.elcometer.com
See our display ad, p. 3.

Electro Abrasives, LLC
701 Willet Rd.
Buffalo, NY 14218
contact: Kristine Ramming
phone: 716-822-2500
info@electroabrasives.com
www.electroabrasives.com

Electronic Pipeline Technology
26 Palomino Dr.
Richmond Hill, ON L4C 0P8 Canada
contact: Alex Jeffery
phone: 905-918-0025
sales@ep-tech.ca
www.ep-tech.ca

ElektroPhysik USA Inc.
778 West Algonquin Rd.
Arlington Heights, IL 60005
contact: Dennis E. Houseweart
phone: 847-437-6616
aivars@epkusa.com
www.elektrophysikusa.com

ElektroPhysik Dr. Steingroever GmbH & Co. KG
Pasteurstr. 15
Cologne, D-50735 Germany
contact: Sales Dept.
phone: 49 221 752040
info@elektrophysik.com
www.elektrophysik.com

EMI International
711 W. Garden St.
Pensacola, FL 32501
contact: Don Presley
phone: 850-380-6214
dpresley@enviromates.com
www.enviromates.com

EMI, Inc.
4 Heritage Park Rd.
Clinton, CT 06413
contact: Wayne Ramsey
phone: 800-243-1188
wayne.ramsey@emimixers.com
www.clevelandmixer.com

Empire Abrasive Blast Equipment
2101 Cabot Blvd. West
Langhorne, PA 19087
contact: Bob Morey
phone: 215-752-8800
airblast@empire-airblast.com
www.empire-airblast.com

EnDiSys
14329 Northdale Blvd.
Rogers, MN 55374
contact: Scott L. Striggow
phone: 763-428-5075
scottstriggow@endisys.com
www.endisys.com

ENMET Corporation
PO Box 979
Ann Arbor, MI 48106
contact: Ray Kelley
phone: 734-761-1270
rkelley@enmet.com
www.enmet.com

EnTech Industries, Inc.
1109 10th St. NE
East Grand Forks, MN 56721
contact: Mark LaPlante
phone: 218-773-6602
info@entechindustries.com
www.entechindustries.com
See our display ad, p. 98.

Enviro-Prep System - A Product of hci
310 S. Bellis St.
Wausau, WI 54403
contact: Cheryl Barton
phone: 715-845-7221
info@enviro-prep.com
www.enviro-prep.com

Equipment Development Co., Inc.
100 Thomas Johnson Drive
Frederick, MD 21702
contact: Richard Quicquel
phone: 800-638-3326
sales@edcoinc.com
www.edcoinc.com

Ervin Industries, Inc.
3893 Research Park Dr.
Ann Arbor, MI 48106
contact: Bill Rhodabarger
phone: 800-748-0055
brhodabarger@ervinindustries.com
www.ervinindustries.com
See our display ad, p. 91.

Euroblast Middle East LLC
PO Box 31230
Dubai, UAE
contact: Kabeer Khadar
phone: 971 4 2824400
info@euroblastme.com
www.euroblastme.com

Eurogrit BV
Noordhoek 7
Papendrecht, 3351 LD Netherlands
contact: Jeroen Keswiel
phone: 31 78 6546770
info@eurogrit.com
www.eurogrit.com
See our display ad, p. 84.

Everblast Inc.
125 Erick St., Ste. A112
Crystal Lake, IL 60014
contact: Chris Hindley
phone: 877-382-5278
sales@everblast.com
www.everblast.com

Exaktime—The JobClock System
27001 Agoura Road, Ste. 280
Calabasas, CA 91301
contact: John O'Hara
phone: 888-788-8463
info@exaktime.com
www.exaktime.com

Exitflex USA, Inc.
254 Raritan Center Parkway
Edison, NJ 08837
contact: Joseph M. Medvecky
phone: 732-512-9141
jmedvecky@exitflexusa.com
www.exitflexusa.com

Extech Instruments Corp.
285 Bear Hill Rd.
Waltham, MA 02451
contact: Tracy Milhomme
phone: 781-434-3939
tracy.milhomme@extech.com
www.extech.com

Farrow System USA, Inc.
705H Old Westtown Road
West Chester, PA 19382
contact: Sales Dept.
phone: 888-327-7698
info@farrowsystem.com
www.farrowsystem.com

Fischer Technology, Inc.
750 Marshall Phelps Rd.
Windsor, CT 06095
contact: Juliann Goodwill
phone: 860-298-6060
sales@fischer-technology.com
www.fischer-technology.com
See our display ad, p. 71.

Flat Rock Bagging
27938 Cooke St.
Flat Rock, MI 48134
contact: Ron Brooks
phone: 734-782-2073
marketing@flatrockbagging.com
www.flatrockbagging.com

Flow International
23500 64th Ave. South
Kent, WA 98059
contact: Richard Schmid
phone: 253-850-3500
rschmid@flowcorp.com
www.flowcorp.com

Fortress Environmental Services
649 Busha Rd.
Owosso, MI 48867
contact: Jim Rose
phone: 800-526-2569
sales@fortressusa.com
www.fortressusa.com

Franmar Chemical, Inc.
PO Box 5565
Bloomington, IL 61701
contact: Customer Service
phone: 800-538-5069
custserv@franmar.com
www.franmar.com

Freemyer Industrial Pressure, LP
1500 N. Main St., Ste. 127
Fort Worth, TX 76164
contact: Greg Leos
phone: 817-548-5010
fip@indpress.com
www.indpress.com

Friess Equipment, Inc.
2222 Akron-Peninsula Rd.
Akron, OH 44313
contact: Jim Friess
phone: 330-945-9440
friessequipment@sbcglobal.net

FROHN North America Inc.
6289 Bankhead Hwy., Bldg. 11 A-D
Austell, GA 30168
contact: Dave Maddy
phone: 877-362-7336
dave.maddy@frohn.com
www.frohn.com

Gamry Instruments, Inc.
734 Louis Drive
Warminster, PA 18974
contact: Pete Peterson
phone: 215-682-9330
info@gamry.com
www.gamry.com

GapVax, Inc.
575 Central Ave.
Johnstown, PA 15902
phone: 888-442-7829
inquiry@gapvax.com
www.gapvax.com

Gardner Denver Water Jetting Systems, Inc.
12300 N. Houston-Rosslyn Rd.
Houston, TX 77086
contact: Greg Laux
phone: 281-448-5800
mktg.wjs@gardnerdenver.com
www.waterjetting.com

General Equipment Company
620 Alexander Dr. SW, PO Box 334
Owatonna, MN 55060
contact: Customer Service
phone: 800-533-0524
general@generalequip.com
www.generalequip.com

Genie Industries
PO Box 97030
Redmond, WA 98073
contact: Inside Sales
phone: 800-536-1800
awp.salesinfo@terex.com
www.genieindustries.com

Global Encasement, Inc.
701 E. Santa Clara St.
Ventura, CA 93001
contact: Ian Bardsley
phone: 800-266-3982
service@encasement.com
www.encasement.com

Global Finishing Solutions
12731 Norway Road
Osseo, WI 54758
contact: Jeff Kloes
phone: 800-848-8738
info@globalfinishing.com
www.globalfinishing.com

Global Wrap, LLC
218 Riberia St.
St. Augustine, FL 32084
contact: Anthony Seraphin
phone: 800-972-7130
tony@globalwrap.com
www.globalwrap.com

GMA Garnet (Europe) GmbH UK Office
PO Box 9
Middlewich, CW10 9FD UK
contact: John Halewood
phone: 44 1606 836 233
sales@gmagarnet.co.uk
www.garnetsales.com

GMA Garnet (USA) Corp.
480 N. Sam Houston Pkwy., Ste. 130
Houston, TX 77060
contact: Pete Mitchell
phone: 832-243-9300
pmitchell@garnetsales.com
www.garnetsales.com
See our display ad, p. 90.

GMA Garnet Pty Ltd.
Level 18, Exchange Plaza 2
The Esplanade
Perth WA, 6000 Australia
contact: Mary Fay
phone: 61 89287 3250
sales@garnetsales.com
www.garnetsales.com

Goff Inc.
12216 NS 3520
Seminole, OK 74868
contact: John Bishop
phone: 405-382-6900
goft@goff-inc.com
www.goff-inc.com

Graco Inc.
88 11th Ave. NE
Minneapolis, MN 55413
contact: John C. Tate
phone: 612-623-6087
info@graco.com
www.graco.com
See our display ad, p. 46.

Grillo Werke AG
Weseler Strasse 1
Duisburg, NRW, 47169 Germany
contact: Artur Cytlak
phone: 49 203 5557 248
a.cytlak@grillo.de
www.grillo.de

Gritco Equipment B.V.
Klompemakerstraat 16D
Ridderkerk, NL-2984 BB Netherlands
contact: Sander van der Made
phone: 31 180 412855
info@gritco.com
www.gritco.com

Guyson Corporation
13 Grande Blvd.
Saratoga Springs, NY 12866
contact: John C. Carson
phone: 800-228-7894
jpcinfo@guyson.com
www.guyson.com

Guzzler Manufacturing

1621 S. Illinois St.
Streator, IL 61364
contact: Kevin O'Brien
phone: 815-672-3171
sales@guzzler.com
www.guzzler.com

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
contact: Denny Mesarvey
phone: 937-859-8777
mail@hammelmann.com
www.hammelmann.com

Harsco Minerals

5040 Louise Drive, Ste. #106
Mechanicsburg, PA 17055
contact: Sean Marpoie
phone: 888-733-3646
info@harscominerals.com
www.blackbeautyabrasives.com
See our display ad, p. 80.

High Pressure Equipment

1222 Linden Ave.
Erie, PA 16506
contact: Larry Loper
phone: 814-838-2028
sales@highpressure.com
www.highpressure.com

High Production Inc.

PO Box 3349
Sherwood Park, AB T8H 2T3 Canada
phone: 780-467-3375
inquiries@highproduction.ca
www.highproduction.ca

HippWrap Containment, Inc.

4070 Kearny Mesa Rd.
San Diego, CA 92111
contact: Kevin Christie
phone: 800-362-4477
kevin@hippwrap.com
www.hippwrap.com
See our display ad, p. 60.

Hi-Tec Spray Ltd.

Heronden Road
Parkwood Industrial Estate
Maidstone, Kent, ME15 9YR UK
contact: Elaine Sharpley
phone: 44 1622 356590
sales@hitecspray.co.uk
www.hitecspray.co.uk

HoldTight Solutions Inc.

PO Box 27907
Houston, TX 77227
contact: Peter Petkas
phone: 713-266-9339
petkas@holdtight.com
www.holdtight.com
See our display ad, p. 35.

HoverTrowel, Inc.

5048 Spruce Lane
Mohnton, PA 19540
contact: Drew Fagley
phone: 610-856-1961
sales@hovertrowel.com
www.hovertrowel.com

HydeTools, Inc.

54 Eastford Road
Southbridge, MA 01550
contact: Customer Service
phone: 800-872-4933
custrelations@hydetools.com
www.hydetools.com

Hydraflow

8125 Brentwood Industrial Dr.
St. Louis, MO 63144
contact: Andy Taylor
phone: 314-644-6677
hydraflo@swbell.net
www.hydraflowequipment.com

H

Hydro Pressure Corp.

413 Dawson Drive
Camarillo, CA 93012
contact: Jeff Glass
phone: 800-934-2399
info@hydropressure.com
www.hydropressure.com

I.C.T.C. Holdings - HERO Products Group

720 Eaton Way
Delta, BC V3M 6J9 Canada
contact: Drew Gagnier
phone: 604-522-6543
dgagnier@hero.ca
www.hero.ca

I

ICM - International Climbing Machines

630B Elmira Road
Ithaca, NY 14850
contact: Sam Maggio
phone: 607-288-4001
info@icm.cc
www.icm.cc

Imperial Paint Applicator

PO Box 1256, 5 Broad Ave.
Ossining, NY 10562
contact: Michael T. Wolf
phone: 800-431-1755
impptappl@aol.com
www.armorflex.net

INDCO, Inc.

4040 Earnings Way
New Albany, IN 47150
contact: Customer Service
phone: 800-942-4383
info@indco.com
www.indco.com

Indian Valley Industries, Inc.

100 Corliss Ave., PO Box 810
Johnson City, NY 13790
contact: Diane Gartell
phone: 800-659-5111
dgartell@iviindustries.com
www.ivindustries.com
See our display ad, p. 65.

Induction Innovations, Inc.

1175 Jansen Farm Court
Elgin, IL 60123
contact: Steven Gough
phone: 877-688-9633
steveg@theinductor.com
www.theinductor.com

Industrial Mineral Co.

PO Box 6, Muthiahapuram
Tuticorin, Tamilnadu, 628005 India
contact: Madhavan.K.
phone: 91 461 2357221
supremegarnet@dataone.in
www.supremegarnet.com

Industrial Scientific

1001 Oakdale Rd.
Oakdale, PA 15071
contact: Renée B. Simpson
phone: 412-788-4353
info@indsci.com
www.indsci.com

Industrial Vacuum Equipment Corp.

N7959 Birch Road
Ixonia, WI 53036
contact: Randy Bourdo
phone: 800-331-4832
randy@industrialvacuum.com
www.industrialvacuum.com
See our display ad, p. 108.

Innovatech Products and Equipment

832 80th St. SW
Everett, WA 98203
contact: Sales Team
phone: 800-267-6682
marys@innovatechproducts.com
www.innovatechproducts.com

J

Innovative Reach

5505 Twin Knolls Dr.
Cedar Rapids, IA 52411
contact: Philip Koch
phone: 319-294-0077
philip@innovativereach.com
www.innovativereach.com

Instrument Sales, Inc./ a GPI Company

3306 Enterprise Road, Ste. 203
Fort Pierce, FL 34982
contact: Sandy Griscom
phone: 800-955-0574
sgriscom@uesi.com

Interstate Supplies & Services

511 Union West Blvd.
Stallings, NC 28104
contact: Josua Joubert
phone: 704-893-2878
josua@iss-go.com
www.iss-go.com

JAD Equipment Co.

1000 Andrews Ave.
Youngstown, OH 44505
contact: Joe Hunsbarger
phone: 866-746-6100
sales@jadcousa.com
www.jadcousa.com

Jennessco Industries, Inc.

10920 Kinghurst Drive
Houston, TX 77099
contact: Felix Essissima
phone: 800-346-7717
felix@jennessco.com
www.jennessco.com
See our display ad, p. 45.

Jenny Products, Inc.

850 North Pleasant Ave.
Somerset, PA 15501
contact: Angela St. Clair
phone: 888-425-3669
info@jennyproductsinc.com
www.jennyproductsinc.com

Jet Edge

12070 43rd St. NE
St. Michael, MN 55376
contact: Nancy Lauseng
phone: 763-497-8700
sales@jetedge.com
www.jetedge.com

Jetech, Inc.

555 Industrial Park Drive
Battle Creek, MI 49037
contact: Gerard De Santis
phone: 269-965-6311
gdesantis@jetech.com
www.jetech.com

Jetstream of Houston

5905 Thomas Road
Houston, TX 77041
contact: Kevin O'Brien
phone: 713-462-7000
sales@waterblast.com
www.waterblast.com
See our display ad, p. 100.

Keith Industries Inc.

248 Astor St.
Newark, NJ 07114
contact: Lee Ross
phone: 973-642-3332
sales@keithindustries.com
www.keithindustries.com

Keizer Technologies, Inc.

10908 S. Pipeline Road
Euless, TX 76040
contact: Judd Adcock
phone: 817-685-7090
ja@rprrtech.com
www.rprtech.com

K

Kennametal Inc.

2879 Aero Park Drive
Traverse City, MI 49686
contact: Customer Service
phone: 800-662-2131
traversecity.service@kennametal.com
www.kennametal.com

Kleenblast Abrasives & Equipment

30028 Industrial Pkwy. SW
Hayward, CA 94544
contact: John Herbert
phone: 800-553-3625
jherbert@kleenblast.com
www.kleenblast.com

KMT Aqua-Dyne

635 W. 12th St.
Baxter Springs, KS 66713
contact: Sales Dept.
phone: 620-856-2151
sales@aqua-dyne.com
www.aqua-dyne.com
See our display ad, p. 105.

KS International, Inc.

PO Box 8835
Greenville, SC 29604
contact: Nancy Hamilton
phone: 864-370-9744
cleansafe@dropcloth.com
www.dropcloth.com

KTA-Tator, Inc.

115 Technology Drive
Pittsburgh, PA 15275
contact: Cathy Farbotnik
phone: 412-788-1300
cfarbotnik@kta.com
www.ktagage.com
See our display ad, p. 68.

L

L.M. Temperature Control Inc.

1900 Shawson Dr.
Mississauga, ON L4W 1R7 Canada
contact: John Hutchison
phone: 905-564-7322
info@lmttemperature.com
www.lmttemperature.com

LaPlace Equipment Co.

167 Jaubert Lane
LaPlace, LA 70068
contact: Buck Oubre
phone: 985-652-5210
buck@h2oblast.com

Larsen Products

8264 Preston Ct.
Jessup, MD 20794
contact: Jeff Larsen
phone: 800-633-6668
jlarsen@larsenproducts.com
www.larsenproducts.com

Larson Electronics LLC

9419 E. US Hwy. 175
Kemp, TX 75143
contact: Rob Bresnahan
phone: 800-369-6671
rb@magnalight.com
www.magnalight.com
See our display ad, p. 59.

Layher, Inc.

4847 Timber Creek Drive
Houston, TX 77017
contact: Frank Frietsch
phone: 713-947-1444
info@layherscaf.com
www.layherusa.com

Lisbon Hoist, Inc.

321 South Beaver St., PO Box 462
Lisbon, OH 44432
contact: Connie Burlingame
phone: 330-424-7283
connie@lisbonhoist.com
www.lisbonhoist.com

Lite-Prep

210 Southwest Ave.
Tallmadge, OH 44278
contact: Dennis Jurecki
phone: 888-884-3776
sales@liteprepspe.com
www.liteprepspe.com

LPI Incorporated

4404 Anderson Drive
Eau Claire, WI 54703
contact: Ardy Robertson
phone: 800-657-6956
sales@lpi-inc.com
www.lpi-inc.com

Lynx Chain & Cable Inc.

PO Box 1035
Tannersville, NY 12485
contact: Terry McKenna
phone: 800-335-5766
info@lynxrigging.com
www.lynxrigging.com

Manus Abrasive Systems, Inc. / Mod-U-Blast Mfg.

1040 - 78 Ave.
Edmonton, AB T6P 1L7 Canada
contact: Robin T. MacLean
phone: 780-468-2588
macleanr@manusabrasive.com
www.modublast.com

Marco

3425 East Locust St.
Davenport, IA 52803
contact: Customer Service
phone: 563-324-2519
sales@marcouisa.com
www.marco.us

Mattson Spray Equipment

230 W. Coleman St.
Rice Lake, WI 54868
contact: Paul Lenzen
phone: 800-877-4857
mse@mattsonspray.com
www.mattsonspray.com

Mec Shot Blasting Eqt. PVT. Ltd.

E-279 M.I.A. 2nd Phase, Basni
Jodhpur, Rajasthan, 342-005 India
contact: Vaibhav Modi
phone: 91 2912740609
mail@mecshot.com
www.mecshot.com

Metal Finishing Systems

4575 S. Navajo
Englewood, CO 80110
contact: Jerry Ehrich
phone: 303-936-2244
sales@metalfinishingsystems.com
www.metalfinishingsystems.com

Metal Samples

152 Metal Samples Rd.
Munford, AL 36268
contact: Brenda Smith
phone: 256-358-4202
msc@alspi.com
www.metalsamples.com

Metallisation Ltd.

Peartree Lane, Dudley
West Midlands, DY2 0XH UK
contact: Stuart Milton
phone: 44 1384 252464
sales@metallisation.com
www.metallisation.com

MHT Access Services Inc.

4127 Hollister St., Ste. A
Houston, TX 77080
contact: Howard Wall
phone: 713-460-4001
howard.wall@mhtgroup.net
www.mhtgroup.net

Michigan Power Cleaning

2101 Palmer Ave.
Kalamazoo, MI 49001
contact: Bryon Becktold
phone: 800-654-0480
bbecktold@sbcglobal.net
www.michiganpowercleaning.com

Midwest Rake Company, LLC

PO Box 1674
Warsaw, IN 46581
contact: Jim Engle
phone: 800-815-7253
jim@midwestrake.com
www.midwestrake.com

Midwest Surface Prep, LLC

2530 E. Northgate St.
Indianapolis, IN 46220
contact: Sales Manager
phone: 317-250-4734
cj@midwestsurfaceprep.com
www.midwestsurfaceprep.com

Minerals Research & Recovery, Inc.

4620 South Coach Dr.
Tucson, AZ 85714
contact: Steve Mehlman
phone: 520-297-4626
smehlman@mrrinc.com
www.mrrinc.com

MIT Manufacturing

12 NE 28th
Oklahoma City, OK 73105
contact: Tommy Field
phone: 405-528-1185
tommy@rapidrain.com
www.blastcat.com

Mi-T-M Corporation

8650 Enterprise Dr.
Peosta, IA 52068
contact: Don Holdridge
phone: 563-556-7484
dholdridge@mitm.com
www.mitm.com

Mohawk Garnet

808 Hwy. 17 East
Wahnapitae, ON P0M 3C0 Canada
contact: Sales Dept.
phone: 705-694-5783
sales@mohawkgarnet.com
www.mohawkgarnet.com
See our display ad, p. 93.

Monarflex

Amager Landevej 233
Kastrup, 2770 Denmark
contact: Kim R. Jensen
phone: 45 4488 5550
dkkrj@icopal.com
www.monarflex.com

Monarflex by Siplast

1000 E. Rochelle Boulevard
Irving, TX 75062
contact: Kim Rowden
phone: 214-869-3842
uskro@icopal.com
www.monarflexusa.com

MONTI Tools, Inc.

120 East Main St., Ste. 185
Ramsey, NJ 07446
contact: Michael Fischer
phone: 201-962-8372
info@monti-tools.com
www.monti-tools.com
See our display ad, p. 87.

Montipower, Inc.

7677 Coppermine Drive
Manassas, VA 20109
contact: Charles Lockard
phone: 540-837-1138
clockard@mbxit.com
www.mbxit.com
See our display ad, p. 83.

Mr. LongArm, Inc.

400 Walnut, PO Box 377
Greenwood, MO 60434
contact: Customer Service
phone: 800-821-3508
info@mrlongarm.com
www.mrlongarm.com

Mr. Shrinkwrap Inc.

PO Box 697
Media, PA 19063
contact: David Baker
phone: 610-566-5290
davidbaker@mrshrinkwrap.com
www.mrshrinkwrap.com

MSA

1000 Cranberry Woods Drive
Cranberry Township, PA 16066
contact: Customer Service
phone: 800-672-2222
info@msanet.com
www.msanet.com

MST, Inc. (Modern Safety Techniques)

11370 Breninger Rd., PO Box 87
Hicksville, OH 43526
contact: Jennifer Gamble
phone: 800-542-6646
modsafe@bright.net
www.modsafe.com
See our display ad, p. 76.

Munkebo Clemco A/S

Smedeloekken 5-7
Munkebo, 5330 Denmark
contact: Niels J. Assersen
phone: 45 65 97 43 80
info@munkebo.com
www.munkebo.com

Munters Corporation

79 Monroe St.
Amesbury, MA 01913
contact: Garrett Freeman
phone: 800-686-8377
garrett_freeman@munters.com
www.munters.us
See our display ad, p. 57.

N.T. Ruddock Co.

26123 Broadway Ave.
Cleveland, OH 44146
contact: Jim, Tom, Bruce, Jen, Mary
phone: 440-439-4976
sales@ntruddock.com
www.ntruddock.com

Natrium Products

PO Box 5465
Cortland, NY 13045
contact: Tim Herman
phone: 800-962-4203
herman@natrium.com
www.natriumsodablast.com
See our display ad, p. 88.

New Age Blast Media®

4900 South Broad St., Ste. 310
Philadelphia, PA 18914
contact: Stephen Mellon
phone: 866-775-6226
sales@novetas.net
www.newageblastmedia.com

Nilfisk-Advance America, Inc.

300 Technology Drive
Malvern, PA 19355
contact: Rosalie Troilo
phone: 610-647-6420
questions@nilfisk-advance.com
www.pa.nilfisk-advance.com

NLB Corp.

29830 Beck Road
Wixom, MI 48393
contact: Jenna Alder
phone: 248-624-5555
nlbmtkg@nlbusa.com
www.nlbcorp.com
See our display ad, p. 40.

Noopy's® Research, Inc.

108 Route 40
Newfield, NJ 08344
contact: Les Morgan
phone: 856-358-6001
www.noopscoup.com

NOREXCO S.A.

16 rue des Chasseurs
Z.I. Internationale
Ville-La-Grand, 74100 France
contact: Bettina Begtoft-Vernay
phone: 33 4 50 38 37 36
norexco.france@norexco.com
www.norexco.com

Norton Sandblasting Equipment

1006 Executive Blvd.
Chesapeake, VA 23320
contact: David Norton
phone: 800-366-4341
info@nortonsandblasting.com
www.nortonsandblasting.com

Novatek Corporation

155 Philips Rd.
Exton, PA 19341
contact: Ken Wise
phone: 866-563-7800
sales@novatekco.com
www.novatekco.com

Olimag Sand

725 Caouette Blvd.
Thetford-Mines, QC G6G 5T1 Canada
contact: Jean-Yves or Linda
phone: 418-338-3562
jy.angers@olimag.com
www.olimag.com

OPTA Minerals Inc.

407 Parkside Drive, PO Box 260
Waterdown, ON L0R 2H0 Canada
contact: Joe Decarvalho
phone: 519-720-9664
info@optaminerals.com
www.optaminerals.com
See our display ad, p. 86.

Overspray Removal-OversprayRx

3455 Peachtree Road N.E., Ste. 500
Atlanta, GA 30326
phone: 800-428-9017
info@oversprayrx.com
www.oversprayrx.com
See our display ad, p. 37.

Oxford Instruments America

300 Baker Ave., Ste. 150
Concord, MA 01742
contact: Sales
phone: 978-369-9933
industrial@oxinst.com
www.oxford-instruments.com

Pacific Roller Die Company, Inc.

1321 W. Winton Ave.
Hayward, CA 94545
contact: Michael Kraut
phone: 510-782-7242
prdsales@prdccompany.com
www.prdcompany.com

Paint Brush Corporation

PO Box 371
Vermillion, SD 57069
contact: Jill VonEhwegen
phone: 800-843-9930
jill@paintbrushpartsbrush.com
www.paintbrushcorp.com

Paint Test Equipment

3/4 The Courtyard, Greenfield Farm Est., Congleton, Cheshire CW12 4TR UK
contact: Stephen McCloskey
phone: 44 1260 275614
sales@paint-test-equipment.co.uk
www.paint-test-equipment.com

Palfinger Systems GmbH

Vogelweiderstrasse 40a Salzburg, 5020 Austria
contact: Bernd Huemer
phone: 43 662 88 00 33 2760
sales@palfingersystems.com
www.palfingersystems.com

Pan Abrasives Group

2 Woodlands Sector 1 #05-20 Woodlands Spectrum I 738068 Singapore
contact: Garry Simmons
phone: 65 6861 6988
pagroup@pan-abrasives.com
www.pan-abrasives.com

Paul N. Gardner Co., Inc.

316 NE 1st St. Pompano Beach, FL 33060
contact: Jim Wick
phone: 954-946-9454
gardner@gardco.com
www.gardco.com
See our display ad, p. 69.

PCWI International Pty. Ltd.

13 Alhambra Ave. Cardiff, 2285 NSW Australia
contact: L.J. Sullivan
phone: 61 2 4954 3900
sales@pcwi.com.au
www.pcwi.com.au

Pellets, LLC

63 Industrial Drive North Tonawanda, NY 14120
contact: Mike Deakin
phone: 716-693-1750
mdeakin@pelletslc.com
www.pelletslc.com

Pentek, Inc.

1026 Fourth Ave. Coraopolis, PA 15108
contact: Tim Benedict
phone: 412-262-0725
tim.benedict@pentekusa.com
www.pentekusa.com

Pipeline Inspection Company

1919 Antoine Houston, TX 77055
contact: Craig Keller
phone: 713-681-5837
sales@picltd.com
www.picltd.com
See our display ad, p. 15.

Powerclad Inc.

Stillington Road, Easingwold York, YO61 3FA UK
contact: Peter Winter
phone: 44 1347825210
peter.winter@itpltd.com
www.powerclad.com

Precision Iceblast Corporation

N3908 Highway 41 Wallace, MI 49893
contact: Keith Boye
phone: 708-205-1141
info@precision-iceblast.com
www.precision-iceblast.com

Premier Mill

611 Sugar Creek Road Delavan, WI 53115
contact: Stewart Rissley
phone: 269-427-7664
stewart.rissley@spx.com
www.premiermill.com

Prep Tec

400 Specialty Pt. Sanford, FL 32771
contact: Nathan Dickford
phone: 407-327-1234
estimates@prep-tec.com
www.prep-tec.com

PreTox Products - NexTec, Inc.

4050 Westmark Dr. Dubuque, IA 52002
contact: Dave Steffen
phone: 800-338-8296
pretodave@aol.com
www.pretox.com
See our display ad, p. 101.

PROSOCO, Inc.

3741 Greenway Circle Lawrence, KS 66046
contact: Customer Care
phone: 800-255-4255
marketing@prosoco.com
www.prosoco.com

Pro-Tect Construction Services, Inc.

18420 68th Ave. S., #109 Kent, WA 98032
contact: Christy Snider
phone: 425-251-3112
christy@protectconstruction.com
www.pro-TECT.net

Pro-Tect Plastic and Supply, Inc.

PO Box 1377 Jacksonville, OR 97530
contact: Sharri Griffin
phone: 800-889-9727
info@pro-TECT.net
www.shrinkwrapcontainments.com
See our display ad, p. 61.

Purdy

13201 N. Lombard St. Portland, OR 97203
contact: Mike Beaudoin
phone: 503-286-8217
info@purdycorp.com
www.purdycorp.com

PWM (Sales) Ltd.

Gowdall Lane, Pollington E. Yorkshire, DN14 0AU UK
contact: Paul Welburn
phone: 44 1405 862688
info@pwm-sales.co.uk
www.pwm-sales.co.uk

Q-Lab Corporation

800 Canterbury Road Cleveland, OH 44145
contact: Alan Boerke
phone: 440-835-8700
info@q-lab.com
www.q-lab.com

Quest Climate Control Equipment, a division of Therma-Stor, LLC

4201 Lien Rd. Madison, WI 53704
contact: Lee Emerson
phone: 866-933-7486
lemerson@thermastor.com
www.questprotect.com

Quikspray, Inc.

PO Box 327 Port Clinton, OH 43452
contact: T. Park McRitchie
phone: 419-732-2611
park@quikspray.com
www.quikspray.com
See our display ad, p. 54.

Radiodetection

154 Portland Road Bridgton, ME 04009
contact: Zenya Brackett
phone: 207-647-9495
rd.sales.us@spx.com
www.radiodetection.com

Rapid Deployable Systems

8761 Dorchester Rd., Ste. 210 North Charleston, SC 29420
contact: Frank Dobosz
phone: 843-412-8960
frankd@rapiddeployablesystems.com
www.rapiddeployablesystems.com

Rapid-Prep, LLC

295 Scituate Ave., Ste. E Johnston, RI 02919
contact: Mike Hogue
phone: 877-529-2124
mikeh@rapidprep.com
www.rapidprep.com

RBW Enterprises, Inc.

169 Hillwood Circle Newnan, GA 30263
contact: Robert B. Watkin
phone: 770-251-8989
watkinbob@aol.com
www.rbwe.com
See our display ad, p. 97.

Reaves & Company, Inc.

4527 Hillsborough Rd. Durham, NC 27705
contact: Ron Sink
phone: 919-682-8149
rsink@reavesdrop.com
www.reavesdrop.com

Red Devil Equipment

14900 21st Ave. N. Plymouth, MN 55447
www.reddevilequipment.com

Reliable Pumps Consultants

5404 Cedar Crest Houston, TX 77087
contact: Russell Reed
phone: 713-640-2718
russellreed@reliablepumps.com
www.reliablepumps.com

Remote Orbital Installations, LLC

429 Venture Court Verona, WI 53593
contact: Michael Kronz
phone: 608-845-0360
roi360@yahoo.com
www.roi360.com

Ring Power Corporation

500 World Commerce Parkway St. Augustine, FL 32092
contact: Micah Hughes
phone: 904-494-1285
aircompressor@ringpower.com
<http://compressedair.ringpower.com>

Ross Cook Brand

6820 North 43rd St. Milwaukee, WI 53209
contact: Stephen Schoenberger
phone: 414-247-7100
pres@vector-vacuums.com
www.vector-vacuums.com

RPB Respiratory

5450 West 83rd St. Los Angeles, CA 90045
contact: Garth Ivory
phone: 866-494-4599
sales@rpbresp.com
www.rpbrespiratory.com

RPR Technologies A/S

Rolighetsvegen 7A Porsgrunn, NO-3933 Norway
contact: Richard Espeseth
phone: 47 35 60 35 38
re@rprtech.com
www.rprtech.com

RUSTECO LLC

1465 E. Del Amo Blvd. Carson, CA 90746
contact: Michael Nahm
phone: 800-787-8326
rusteco@aol.com
www.rusteco.com

Ryno Tools Supply Co.

21 W. 301 Lake St. Addison, IL 60101
contact: Ryan Donaldson
phone: 630-627-7075
ryan@rynotools.com
www.rynotools.com

SAFE Systems, Inc.

18420 68th Ave. S., #202 Kent, WA 98032
contact: Glenn Seaverns
phone: 425-251-8662
info@safesys.com
www.safesys.com
See our display ad, p. 81.

Safespan Platform Systems, Inc.

252 Fillmore Ave. Tonawanda, NY 14150
contact: David Malcolm
phone: 800-368-4010
dmalcolm@safespan.com
www.safespan.com

Safety Lamp of Houston

1816 Rotary Drive Humble, TX 77338
contact: Jim Reeves
phone: 281-964-1019
sales@safetylampofhouston.com
www.safetylampofhouston.com

Safway Services, LLC

Scotia-Glenville Industrial Park Bldg. 406 Scotia, NY 12302
contact: Jerry Dolly
phone: 518-381-6000
quikdeck@safway.com
www.safway.com
See our display ad, p. 77.

Sanstorm

5711 Schurmier Road Houston, TX 77048
contact: Benny LeCompte
phone: 800-727-5707
benny@sbsllc.com
www.sanstormblasters.com

Scaffold Service, Inc.

2525 Wabash Ave. St. Paul, MN 55114
contact: Micki Hentges
phone: 800-237-0417
micki@scaferv.com
www.scaferv.com

Sea To Sky Innovations Ltd.

8-91 Golden Drive Coquitlam, BC V3K 6R2 Canada
contact: Doug White
phone: 604-468-7711
info@sea2sky.ca
www.sea2skyglobal.com

SEMicro Div., M.E. Taylor Engs. Inc.

15817 Crabbs Branch Way Rockville, MD 20855
contact: Gene Taylor
phone: 301-975-9798
sales@semicro.org
www.adhesiontesting.com

SIE Industrial Ltd.

Faraday House Pattinson South Industrial Estate Washington, Tyne & Wear NE38 7LW UK
contact: Gareth Bowen
phone: 44 191 416 5127
gareth@sie-industrial.co.uk
www.sieindustrial.co.uk

Sil Industrial Minerals, Inc.

7331 18th St. Edmonton, AB T6P 1P9 Canada
contact: Order Desk
phone: 800-661-6982
sales@sil.ab.ca
www.sil.ab.ca

Sky Climber LLC

1800 Pittsburgh Dr.
Delaware, OH 43015
contact: Todd King
phone: 740-203-3930
ksunkle@skyclimber.com
www.skyclimber.com

Smith Manufacturing

1610 S. Dixie Highway
Pompano Beach, FL 33060
contact: John Edwards
phone: 800-653-9311
jedwards@smithmfg.com
www.smithmfg.com

SodaBlast Systems LLC

5711 Schurmier
Houston, TX 77048
contact: Benny LeCompte
phone: 800-216-7632
benny@sbsllc.com
www.sodablastsystems.com

Solvent Kleene, Inc.

119 Foster St., Bldg. #6
Peabody, MA 01960
contact: Don Adams
phone: 978-531-2279
sales@solventkleene.com
www.solventkleene.com

Solvent Waste Management, Inc.

8103 Spring Cypress
Spring, TX 77379
contact: Bill Palamountain
phone: 281-379-3666
swm@solventwasher.com
www.solventwasher.com

SPE Group

Honeyholes Lane
Dunholme, LN2 3SU UK
contact: John Hill
phone: 44 1673 860 709
sales@spe-int.com
www.specepreparationgroup.com

Specialty Products, Inc. (SPI)

2410 104th St. Ct. S., Ste. D
Lakewood, WA 98449
contact: Cliff Haskins
phone: 800-627-0773
haskins@specialty-products.com
www.specialty-products.com

Specialty Vacuum Inc.

4533 Green Park
St. Louis, MO 63123
contact: Noel Prudent
phone: 800-448-2801
sales@specialtyvacuum.com
www.specialtyvacuum.com

Sperian Protection

900 Douglas Pike
Smithfield, RI 02917
contact: Michael Bennett
phone: 513-943-4629
information@sperianprotection.com
www.sperianprotection.com

SPE-USA

210 Southwest Ave.
Tallmadge, OH 44221
contact: Dennis Jurecki
phone: 888-884-3776
sales@spe-usa.com
www.spe-usa.com

Spider, a Division of SafeWorks

365 Upland Drive
Seattle, WA 98188
contact: Operations Ctr.
phone: 877-774-3370
spider@safeworks.com
www.spiderstaging.com
See our display ad, p. 44.

SPIR STAR, Ltd.

10002 Sam Houston Center Drive
Houston, TX 77064
contact: Jerry Carter
phone: 281-664-7800
sales@spirstar.com
www.spirstar.com

Sponge-Jet, Inc.

235 Heritage Ave., Ste. 2
Portsmouth, NH 03801
contact: Tony Anni
phone: 603-610-7950
sjadmin@spongejet.com
www.spongejet.com

Spray Equipment & Service Center

311 S. Pattie St.
Wichita, KS 67211
contact: John Goodman
phone: 800-666-6072
jgoodman@sprayequipment.com
www.sprayequipment.com

Spray-Quip, Inc.

1754 Des Jardines
Houston, TX 77023
contact: Herb Chilman
phone: 713-923-2771
sq@sprayquip.com
www.sprayquip.com

Spraytech, Inc.,

Global Spray Solutions
15179 West 54 Highway
Wichita, KS 67235
contact: Dave Calvin
phone: 316-943-3700
dcalvin@globalspray.com
www.globalspray.com

SSPC: The Society for Protective Coatings

40 24th St., 6th Fl.
Pittsburgh, PA 15222
contact: Jeannine Bodack
phone: 412-281-2331
bodack@sspc.org
www.sspc.org
See our display ads, pp. 66, 72, 85.

Star 10 Inc.

575 W. Hume Ave.
Muskegon, MI 49444
contact: Phillip E. Pennington
phone: 800-726-4319
sales@starten.com
www.starten.com

Stone Tucker Instruments Inc.

39 College St.
Fonthill, ON L0S 1E0 Canada
contact: Bob Tucker
phone: 905-892-6142
info@stone-tucker.com
www.stone-tucker.com

Straaltechniek International B.V.

Bunsenstrat 1, Dordrecht,
Zuid-Holland, 3316 GC Netherlands
contact: A.W.M. Gielen
phone: 31 78 6511477
info@straaltechniek.net
www.straaltechniek.net

Sulzer Metco

1101 Prospect Ave.
Westbury, NY 11590
contact: Customer Service
phone: 800-638-2699
ts-classics@sulzer.com
www.sulzermetco.com

Sunbelt Rentals

2341 Deerfield Drive
Fort Mill, SC 29715
contact: Ken Rothmel
phone: 704-506-8639
krothmel@sunbeltrentals.com
www.sunbeltrentals.com

Super Products LLC

17000 W. Cleveland Ave.
New Berlin, WI 53151
contact: Tony Prokop
phone: 800-837-9711
info@superproductscorp.com
www.superproductscorp.com

Super Titan div. of Malyn Industrial Ceramics, Inc.

8640 Roll Road
Clarence Center, NY 14032
contact: Christina M. Gossett
phone: 716-741-1510
sales@malyn.com
www.malyn.com

Surface Prep Supply

#2 Hwy. 17-92 North
Haines City, FL 33844
contact: Customer Service
phone: 888-331-7737
info@prepsupply.com
www.prepsupply.com

Surface Preparation-Texas, LLC

5965 South Loop East
Houston, TX 77033
contact: Customer Service
phone: 800-374-4043
info@surfacepreparation.com
www.surfacepreparation.com

Swing-Lo Suspended Scaffold Co.

PO Box 128
Covert, MI 49043
contact: George Saleeby
phone: 269-764-8989
info@swing-lo.com
www.swing-lo.com

T Tex Industries LP

8302 Alameda Genoa
Houston, TX 77075
contact: Darrell Todd
phone: 713-991-7070
ttexequipment@gmail.com
www.ttindustries.com

Tarps Manufacturing, Inc.

1000 State Hwy. 104
Meredosia, IL 62665
contact: Rich Ott
phone: 877-584-1900
customerservice@tarpsmfg.com
www.tarpsmfg.com

Terrco Inc.

222 First Ave. NW
Watertown, SD 57201
contact: James Vinella
phone: 605-882-3888
jim@terrco.com
www.terrco.com

Testcoat Inc.

1685 Baltimore Pike, Ste. C
Gettysburg, PA 17325
contact: Shelley Peterson
phone: 800-678-4370
sales@testcoat-usa.com
www.testcoat-usa.com

Testex

PO Box 867
Newark, DE 19715
contact: Mary Ellen Stachnik
phone: 302-731-5693
mestachnik@testextape.com
www.testextape.com

Texas Crusher

6150 County Road 4097
Kaufman, TX 75142
contact: Ted Brees
phone: 972-567-9725
scbrees@texascrusher.us
www.texascrusher.us

The Andersons, Inc.

PO Box 119
Maumee, OH 43537
contact: Norm Peiffer
phone: 866-234-0505
coborders@andersonsinc.com

The D. E. Stearns Company

PO Box 3456
Shreveport, LA 71133
contact: Peggie S. Rose
phone: 318-635-5351
info@destearns.com
www.destearns.com

The Desmond-Stephan Mfg. Co.

PO Box 30
Urbana, IL 43078
contact: Bob, Karen, Joanna
phone: 800-823-4670
krm_desmond@yahoo.com
www.desmond-stephan.com

The TDJ Group, Inc.

760-A Industrial Drive
Cary, IL 60013
contact: James Lively
phone: 800-252-7869
tdj@blastox.com
www.blastox.com

The Warehouse Rentals and Supplies

1335 South Main St.
Greensburg, PA 15601
contact: John, Dave, Joe
phone: 800-621-2777
sales@twrs.com
www.twrs.com
See our display ad, p. 58.

The Wooster Brush Company

604 Madison Ave., PO Box 6010
Wooster, OH 44691
contact: Anne Horst
phone: 800-392-7246
customerservice@woosterbrush.com
www.woosterbrush.com

Thermion

PO Box 780
Silverdale, WA 98383
contact: Dean Hooks
phone: 360-692-6469
dhooks@thermioninc.com
www.thermioninc.com

Titan Tool

1770 Fernbrook Lane
Plymouth, MN 55447
phone: 800-526-5362
titan@titantool.com
www.titantool.com

TMS Metalizing Systems, Ltd.

PO Box 2136
Silverdale, WA 98383
contact: Dave Wixson
phone: 360-692-6656
info@tmsmetalizing.com
www.tmsmetalizing.com

Total Enclosure Sail System, Inc.

5200 Martel Ave., Ste. 14B
Dallas, TX 75206
contact: Bret Walton
phone: 800-724-5710
bret@tessgroup.com
www.sailsystem.com

TQC Thermimport Quality Control

Nijverheidscentrum 14
Zevenhuizen, 2761 JP Netherlands
contact: George N. Moonen
phone: 31 180 631344
info@tqc.eu
www.tqc.eu

Tractel Inc. Fallstop Division

11020 Mirabeau St.
Anjou, QC H1J 2S3 Canada
contact: Rim Dimassi
phone: 800-561-3229
dominic.moraca@tractel.com
www.tractel.com

Tractel Inc. Grifoist Division

51 Morgan Drive
Norwood, MA 02062
contact: Bill McBrayer
phone: 513-702-9630
bill.mcbrayer@tractel.com
www.tractel.com
See our display ad, p. 45.

Tramex Ltd.

28 Pin Oak Drive
Littleton, CO 80127
contact: Dennis Wieszcholek
phone: 303-972-7926
sales@tramexltd.com
www.tramexltd.com

Trelawny Surface Preparation Technology

13 Highdown Rd., Sydenham Ind. Est.
Warwickshire, Leamington Spa
CV31 1XT UK
contact: Lynsey Day
phone: 44 1926 88 37 81
sales@trelawny.co.uk
www.trelawnyspt.co.uk

Trimaco, LLC

2300 Gateway Centre Blvd., Ste. 200
Morrisville, NC 27560
contact: 800-325-7356
phone: 314-534-5005
customerservice@trimaco.com
www.trimaco.com

Tritech Industries, Inc.

610 Rahway Ave.
Union, NJ 07083
contact: John Plocic
phone: 908-378-1080
jplocic@tritechindustries.com
www.tritechindustries.com

TriVistro Corporation

18420 68th Ave., South, Ste. 101
Kent, WA 98032
contact: Jeff Freas
phone: 888-301-0181
info@trivistro.com
www.trivistro.com
See our display ad, p. 86.

U.S. Metals, Inc.

PO Box 396
Mentone, IN 46539
contact: Jim Green
phone: 800-433-6244
usmetals@comcast.net
www.usmetalsinc.com

U.S. Minerals

2105 North Winds Drive
Dyer, IN 46311
contact: Jason Vukas
phone: 219-864-0909
jvukas@us-minerals.com
www.us-minerals.com
See our display ad, p. 82.

UHP Projects, Inc.

4811 Mercantile Dr.
Newport News, VA 23607
contact: Richard Dupuy
phone: 757-928-1890
r.dupuy@uhpprojects.com
www.uhpprojects.com

UltraChem / Sharp Performance Products

6700 Dixie Drive
Houston, TX 77087
contact: Sam George
phone: 713-641-1444
seg@ultrachem.us
www.flashshield.us

UNIBRI International

125 Erick St., Ste. A112
Crystal Lake, IL 60014
contact: Export Sales
phone: 815-788-8660
unibri@aol.com

Unified Technologies

3015 Center Dr.
Cleveland, OH 44134
contact: Art Koch
phone: 440-897-5226
artkoch123@gmail.com
www.ut-unifiedtechnologies.com

United Abrasive, Inc.

19100 Industrial Dr., PO Box 98
Vulcan, MI 49892
contact: Bill Paupore
phone: 800-228-2925
bill4@unitedabrasive.com

Universal Minerals, Inc.

6319 Brookhill Drive
Houston, TX 77087
contact: Gary Birdwell
phone: 713-797-0054
garyb@universalminerals.com
www.universalminerals.com

URACA Pumpenfabrik GmbH & Co. KG

Sirchinger Str. 15
Bad Urach 72574 Germany
contact: Herbert Queiser
phone: 49 7125 133 0
info@uraca.de
www.uraca.de

US Shotblast Parts & Service Corp.

207 NW 59th St.
Oklahoma City, OK 73118
contact: Jeff Jones
phone: 888-745-6766
ussotblast@sbcglobal.net
www.shotblastparts.com

V. V. Mineral

17-C Keeraikaranthattu
Tisaiyanilai, Tirunelveli
Tamilnadu, 627 657 India
contact: V. Subramanian
phone: 91 4637 271202
vvadmin@vvmineral.com
www.vvmineral.com

Vacuum Engineering Group

6820 N. 43rd St.
Milwaukee, WI 53209
contact: Brent Alexander
phone: 260-484-7311
sales@vector-vacuums.com
www.vector-vacuums.com

Van Air Systems

2950 Mechanic St.
Lake City, PA 16423
contact: Sales Dept.
phone: 800-840-9906
info@vanairsystems.com
www.vanairsystems.com
See our display ad, p. 92.

Vector Technologies Ltd.

6820 N. 43rd St.
Milwaukee, WI 53209
contact: Brent Alexander
phone: 800-832-4010
sales@vector-vacuums.com
www.vector-vacuums.com
See our display ad, p. 106.

VIC International Corporation

231 E. Emory Rd.
Powell, TN 37849
contact: John Milligan
phone: 800-396-0324
webmaster@vicintl.com
www.vicintl.com

Virginia Materials, Inc.

3306 Peterson St.
Norfolk, VA 23509
contact: Ben Burns
phone: 757-855-0155
benburns@optaminerals.com
www.optaminerals.com

VLN Advanced Technologies Inc.

1166 Rainbow St.
Ottawa, ON K1J 6X7 Canada
contact: Willie Bloom
phone: 613-747-0107
wbloom@vln-tech.com
www.vln-tech.com

Voyager Spray Systems, a div. of Creative Material Technologies Ltd.

21 Wilbraham St., Unit B11
Palmer, MA 01069
contact: John C. Becker IV
phone: 413-284-0000
info@voyagerspray.com
www.voyagerspray.com

Vulkan Blast Shot Technology

10 Plant Farm Blvd., Unit 2
Brantford, ON N3S 7W3 Canada
contact: Customer Service
phone: 519-753-2226
vulkan@vulkanshot.com
www.vulkanshot.com
See our display ad, p. 88.

W Abrasives

1 Abrasive Ave.
Bedford, VA 24523
contact: Michael Cagnoli
phone: 905-735-4691
michael.cagnoli@wabrasives.com
www.wabrasives.com

Warwick Mills, Inc.

301 Turnpike Rd., PO Box 409
New Ipswich, NH 03071
contact: Ed Twadell
phone: 603-291-1000
inquiries@warwickmills.com
www.turtleskin.com

Wegener Welding LLC

16W301 S. Frontage Rd.
Burr Ridge, IL 60527
contact: Liz Turner
phone: 630-789-0990
info@wegenerwelding.com
www.wegenerwelding.com

Western Technology Inc.

3517 Arsenal Way
Bremerton, WA 98312
contact: Tammi Finlay
phone: 800-654-5483
support@westerntechnologylights.com
www.westerntechnologylights.com

WGI Heavy Minerals, Inc.

810 Sherman Ave.
Coeur d'Alene, ID 83814
contact: Liz Rosenthal
phone: 208-666-6000
liz@wgiheavyminerals.com
www.wgiheavyminerals.com

WGI Heavy Minerals Inc.

Noten Bogerd 29
Hendrik Ido Ambacht
3343 BG Netherlands
contact: Hans Klein
phone: 31-78-6820672
hans@wgiheavyminerals.com
www.wgiheavyminerals.com

Wheelabrator Group

1606 Executive Drive
LaGrange, GA 30240
contact: Greg Smith
phone: 800-544-4144
parts@wheelabratorgroup.com
www.wheelabratorgroup.com

Wheelabrator Group (Canada) Inc.

1219 Corporate Drive
Burlington, ON L7L 5V5 Canada
contact: Doug LoFranco
phone: 800-845-8508
info@wheelabratorgroup.com
www.wheelabratorgroup.com

WIWA Wilhelm Wagner LP

3734A Cook Boulevard
Chesapeake, VA 23323
contact: Teresa Ricketts
phone: 866-661-2139
tricketts@wiwalp.com
www.wiwa.com
See our display ad, p. 50.

Wolf Safety Lamp Co Ltd., The

Saxon Road Works, Sheffield
South Yorkshire, S8 0YA UK
contact: Miles Jackson
phone: 44 114 255 1051
info@wolf-safety.co.uk
www.wolf-safety.co.uk

WOMA Corporation

95 Newfield Ave., Ste. K
Edison, NJ 08837
contact: Robert Carvajales
phone: 732-417-0010
b.carvajales@womacorp.com
www.womacorp.com

WOMA GmbH

Werthausen Strasse 77-79
Duisburg, NRW 47226 Germany
phone: 49 2065 3040
info@woma.de
www.woma.de

Wuxi Ding Long Co., Ltd.

B Ste. 17F Wah Kwong Bldg., Ste B
333 Zhongshan Rd.
Wuxi, Jiangsu, 214001 China
contact: Raymond Ding
phone: 86 510 82755455
sales@sinogarnet.com
www.sinogarnet.com

Xiom Corporation

78 Lamar St.
West Babylon, NY 11704
contact: Dan
phone: 631-643-4400
sales@xiom-corp.com
www.xiom-corp.com