



The Society for Protective Coatings

## FEATURES



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### **PPE REQUIREMENTS FOR POLYURETHANES VERSUS NON-ISOCYANATE COATINGS: IS THERE REALLY A DIFFERENCE?**

By Leah K. Tipton, KTA-Tator, Inc.

The word isocyanate on a product label or safety data sheet might prompt the selection of an alternative coating and in some cases, facility owners and/or contractors have reportedly been reluctant to specify/use polyurethane coatings, based upon a belief that coatings containing isocyanates have more stringent personal protective equipment requirements than those for application of coatings that do not contain isocyanates. This article describes a study conducted to investigate this belief and determine if recommended PPE requirements differ between polyurethane and non-isocyanate containing coatings.



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### **THE EFFECT OF FEATHERING ON COATING PERFORMANCE**

By Patrick Cassidy and Michael Kibler, Elzly Technology Corporation; and Cameron Miller, Paul Slebodnick and James Martin, U.S. Naval Research Laboratory

Feedback from waterfront personnel performing maintenance painting for the U.S. Navy has consistently questioned the Navy's requirement for performing feathering. NAVSEA Standard Item (NSI) 009-32 defines feathering as tapering the edges of tightly adhering old paint at an approximate 30-degree angle into the newly prepared bare metal surface. This article describes a U.S. Naval Research Laboratory program designed to test the hypothesis that feathering does not affect repair coating system performance and discusses what this testing revealed.



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### **HOW TO SELECT AN AIRLESS SPRAYER: POWER SOURCES**

By Eric Rennerfeldt, John Lihwa and Josh Carney, Graco Inc.

In selecting airless spray equipment, many factors must be considered, including the available power source, the coating type, the application demand, the distance between the pump and the spray gun, the operating environment, portability and maintenance requirements. In this article, we will focus on the pros and cons of various power sources when selecting airless spraying equipment.

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### **2019 ANNUAL EQUIPMENT BUYING GUIDE**

The JPCL Equipment Buying Guide lists products, equipment and supplies for protective and marine coating work from manufacturers, distributors and rental companies located around the world. As in previous years, the Equipment Buying Guide is based on surveys completed by equipment companies known to JPCL.

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## STAFF

### Editorial:

Editor in Chief: Pamela Simmons / [psimmons@paintsquare.com](mailto:psimmons@paintsquare.com)

Managing Editor: Charles Lange / [clange@paintsquare.com](mailto:clange@paintsquare.com)

Technical Editor: Brian Goldie / [bgoldie@jpcleurope.com](mailto:bgoldie@jpcleurope.com)

### Contributing Editors:

J. Peter Ault, Peter Bock, Warren Brand, Robert Ikenberry,

Alison Kaelin, Alan Kehr, Robert Kogler, E. Bud Senkowski

### Production / Circulation:

Art Director: Peter F. Salvati / [psalvati@paintsquare.com](mailto:psalvati@paintsquare.com)

Associate Art Director: Daniel Yauger / [dyauger@paintsquare.com](mailto:dyauger@paintsquare.com)

Circulation Manager: Nichole Altieri / [naltieri@technologypub.com](mailto:naltieri@technologypub.com)

Business Administration Manager: Nichole Altieri / [naltieri@technologypub.com](mailto:naltieri@technologypub.com)

### Ad Sales Account Representatives:

Vice President, Group Publisher: Marian Welsh / [mwelsh@paintsquare.com](mailto:mwelsh@paintsquare.com)

Business Development Manager: Candace Hicks / [candace.hicks@paintsquare.com](mailto:candace.hicks@paintsquare.com)

Classified and Service Directory Manager: Lauren Skrainy / [lskrainy@paintsquare.com](mailto:lskrainy@paintsquare.com)

### PaintSquare:

Vice President, Operations: Andy Folmer / [afolmer@technologypub.com](mailto:afolmer@technologypub.com)

Vice President, Content: Pamela Simmons / [psimmons@technologypub.com](mailto:psimmons@technologypub.com)

Editor, PaintSquare News: Brandy Hadden / [bhadden@paintsquare.com](mailto:bhadden@paintsquare.com)

### SSPC:

SSPC Individual Membership: Cara Blyzwick / [blyzwick@sspc.org](mailto:blyzwick@sspc.org)

SSPC Corporate Membership: Diane McGuire / [m McGuire@sspc.org](mailto:m McGuire@sspc.org)

Telephone: 1-877-281-7772 (toll free); 412-281-2331 (direct)

### Finance:

Vice President, Finance: Michele Lackey / [mlackey@technologypub.com](mailto:mlackey@technologypub.com)

Accounting Manager: Andrew Thomas / [athomas@technologypub.com](mailto:athomas@technologypub.com)

CEO: Brion D. Palmer / [bpalmer@technologypub.com](mailto:bpalmer@technologypub.com)

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## SSPC Trainthepainter Update

**W**hen SSPC launched its Trainthepainter (TTP) program, the goal was to elevate the industry through safer, more effective and more efficient training.

In its third year since launch, SSPC has taught 90 trainers from more than 25 companies in seven different countries, encouraging and promoting employee motivation, job satisfaction, health and safety, and smarter work

habits to positively impact the bottom line for these contractors.

TTP is a flexible, formal internal training program that is broken down into three main modules for applicators, blasters and sprayers. These modules include 39 hands-on workshops, adding up to approximately 80 hours of total training material, which is housed entirely online. These modules can also help prepare craftworkers for some of SSPC's certification level exams, including the C6, C7, C12, and CAS level exams.

In order to administer TTP, companies first designate representatives—typically project managers and supervisors—to receive SSPC's two-day Train-the-Trainer (TTT) program, which covers all of the necessary skills and requirements needed to then implement TTP internally to company craftworkers.

For more information about the TTP program, contact Jennifer Buzzatto, SSPC (412-281-2331, ext. 2222; buzzatto@sspc.org) or visit [www.sspc.org/trn-crs-ttp](http://www.sspc.org/trn-crs-ttp).



TTT at Revolution Industrial in Phoenix, Aug. 16–17, 2018. Pictured, from left: Don Marmon, Tyrel Brunson, SSPC instructor Jennifer Buzzatto, Tommy Leonard and Steven Benko. All photos courtesy of SSPC.



TTT at J.T. Thorpe in Los Angeles, Nov. 5–6, 2018. Pictured, from left: Richie Meza, Buzzatto, Patrick Ricciardi and Anthony Jones.



TTT at IPC Industries LP in Santa Fe, Texas, Dec. 12–13, 2018. Pictured, from left: Jason Mendoza, Alberto Sada, Jr., Buzzatto and Francisco Valencia.



TTT at BRACE Industrial in Wichita, Kansas, Sept. 25–26, 2018. Pictured, from left: Jerod Bina, Luke Hess, Jeremy Barnett, Sam Green, Raymond Harrington and Eddie Serrano.



TTT at Disney's Coronado Springs Resort during SSPC Coatings+ 2019, Feb. 9–10, 2019. Pictured, from left: Bary Dickson, Buzzatto, Serviel Smolders, Sr., Gavin Bishop, Michel Drysdale and Serviel Smolders, Jr.



TTT at Deco Coatings in Indianapolis, March 6–7, 2019. Pictured, from left: Wayne Hughes, William Foster, Buzzatto and Jose Roman.



TTT at Copia Specialty Contractors, Inc. in Bangor, Maine, March 20–21, 2019. Pictured, from left: Adam Stanley, Coby Hutchins, Ramon Pelaez, Brandon Briggs and Lee Stanley.



TTT at BrandSafway in Mobile, Alabama, May 8–9, 2019. Pictured, from left: Troy Zahn, Jeremy Blount and Tom Frederic.



## SSPC Board of Governors Election Results

**S**SPC: The Society for Protective Coatings is pleased to announce the results of its 2019 Board of Governors election.

There were four open positions with a total of 16 candidates on the ballot. Winning candidates and positions are:

- International Representative: Juan Caballero, Owner, Principal Coatings Consultant and Inspector, Naval & Industrial Solutions;
- Other Service Provider: Alison B. Kaelin, Principal, ABKaelin, LLC; and
- Coating Material Suppliers: Ahren Olson, Marketing Manager-Protective Coatings, Covestro

LLC; and W. Doni Riddle, Sr. Vice President of Sales, The Sherwin-Williams Company.

Caballero, who spent the past year as an ex-officio member of the board, will serve his first term as an officially elected voting member. Kaelin is newly elected and will serve her first term. Olson was re-elected for a second term after spending the past four years on the board. Riddle will serve a second stint on the board after having previously served from 2003–2011. Their terms will begin on July 1, 2019 and end on June 30, 2023.

Leaving the board this year are Gunnar Ackx of SCICON Worldwide bvba, the first

board member from the International Representative category; and Brian Skerry of The Sherwin-Williams Company. The term of Skip Vernon of CLT, Inc. has ended; however, Vernon has been appointed to fill an ex-officio spot to assist SSPC in the ongoing talks with NACE International.

In other recent board news, Sam Scaturro of Alpine Painting & Sandblasting Contractors was elected to the Vice President position at the board meeting in January. He will assume that position on July 1, 2019, when the officer rotation changes. At that time, current board President Garry Manous of Atsalis Brothers Painting will become Immediate Past-President, Joe Walker of Elcometer, Inc. will become President and Joyce Wright of Huntington Ingalls Industries-Newport News Shipbuilding will become President-Elect.

Other adjustments to ex-officio member terms include the extension of Jim King of John B. Conomos, Inc. and the departure of Kristin Leonard of ExxonMobil Research & Engineering. Ex-officio terms run in one-year increments.



Juan Caballero



Alison B. Kaelin



Ahren Olson



Doni Riddle

## OSHA Releases Final Rule for Various Standards

**O**n May 13, OSHA issued a final rule, ultimately revising 14 provisions within recordkeeping, general industry, maritime and construction standards that might otherwise be confusing, outdated or unnecessary.

The Standards Improvements Project also aims to permit better compliance by employers and reduce various costs and paperwork burdens where applicable, without reducing employee protection.

As part of the final rule, OSHA has proposed and approved an update to the consensus standard for signs and devices used to protect workers when in proximity of automobile traffic. Additional construction-related changes include decreasing the minimum breaking-strength requirement for lifelines in safety belts, lifelines and lanyards.

However, OSHA has declined to revise the lockout/tagout and personal protective equipment standards or proposed changes to the excavation or underground construction standards, stating in its report, “that such a change to the PPE standard should occur in a separate rulemaking outside the limited SIP process.”

Regarding health, OSHA has removed the requirement that employers provide periodic chest X-rays to screen for lung cancer in several standards, including: inorganic arsenic, coke-oven emissions

and acrylonitrile. Exceptions have been made for the screening requirements for asbestosis, however.

Additionally, employers are permitted to use digital radiography and other reasonably-sized standard films for X-rays for medical surveillance. OSHA has also updated the definition of when hearing loss is related to the workplace and revised pulmonary function testing.

In the event of a medical emergency, OSHA has reviewed methods used for calling emergency services, choosing to update the airborne concentration standards. This will require that employers have current technologies in the case of contacting an ambulance service while in areas with unreliable cell service.

As for sanitation standards and preventing infestation, after receiving some 500 comments from the public, OSHA has removed “feral cats” from its list of vermin in regard to shipyards; “insects, birds, other animals and rodents” remain, however.

The agency estimates that the SIP rulemakings will inspire various cost savings and paperwork reductions. After proposing these changes back in October 2016, the agency will see the rule take effect 60 days after its official publication in the Federal Register.

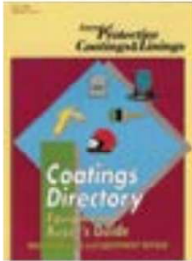
To read the new final rule and its provisions in entirety, visit [www.osha.gov](http://www.osha.gov).



## THIS MONTH IN ...

### 1990

JPCL's 1990 edition of the Coatings Directory, Linings and Floor Toppings Directory and Equipment Buyer's Guide contained "New



Products for Heavy Duty Maintenance and Marine Applications," an article written by Harold Hower that surveyed the latest offerings in the marine coatings market.

### 2000

This year's renewed discussions between SSPC and NACE International regarding a potential merger

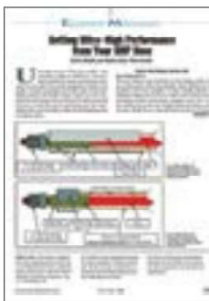


prompt a look back to the organizations' previous merger efforts almost two decades earlier. The June 2000 JPCL covered the then-on-

going merger talks, including a news update about financial discussions and letters to the editor from readers expressing their feelings about the proposals at the time.

### 2006

As ultra-high-pressure waterjetting began to increasingly appear in surface-preparation specifications, Paul Webster and Stephen Jones of Parker Hannifin penned an Equipment Maintenance column, "Getting Ultra-High Performance from Your UHP Hose," covering the necessary steps to help maximize hose life and minimize risks to worker safety.



### 2008

In "A Survey of Practices: Surface Preparation for Industrial Coating Work," JPCL conducted an online survey of more than 1,500 painting



contractors in an effort to gauge how rising costs, compliance with environmental and worker health regulations and advances in equipment have changed the methods and materials used for surface preparation.

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## PAINTSQUARE COMMENTS

## In Response to "Lawmakers Reveal \$2T Infrastructure Agreement"

(PaintSquare News, May 1)

In late April, President Donald J. Trump and Democratic congressional leaders announced the agreement of a \$2 trillion infrastructure plan. The proposal focuses on roads, bridges, highways, water, power grids and other various infrastructure. However, no agreement has been reached on how it will be paid for.



Getty Images / Art Wager

## PAINT POLL

[paintsquare.com/poll](http://paintsquare.com/poll)

**In anticipation of what ideas will be brought to the table in the next bipartisan meeting, how do you think Congress will decide to fund this proposal?**

**Raise in Gas Tax 56%** **Government Investments 22%**  
**Other 15%** **Public Seed Money 7%**

**Wayne LaFleur:**

"Government investments = American taxpayers. Public seed money = American taxpayers. Raise in gas tax = American taxpayers."

**Michael Beitzel:**

"Partial funding through a modest increase in the gas tax—but also by a shipping infrastructure fee based on weight and distance for online purchases to be paid by Amazon and other online vendors who ship by ground transportation or by infrastructure fees on interstate trucking firms."

**T.W.:**

"Spending cuts, anyone?"

**Peter Kenimer:**

"Gas tax hasn't moved [in] 26 years. Seems like a pretty obvious first choice, unfortunately ... say, \$0.20/gallon?"

**Lou Lyras:**

"The conversation is great. The 'how will it be paid' is difficult. I am in favor of government investment. This investment will return billions of dollars to our economy. The other problem is that the two parties are not in agreement.

Aside from the president and some staff, there were no Republicans in the room with Nancy Pelosi and Chuck Schumer. That doesn't help. I hope they will come to some sort of bipartisan solution. Finally, \$2T is not really enough, but it is a start."

**Michael Halliwell:**

"If the plan goes ahead, the 'how it will be paid' is easy: by taxpayers. It will either result in: a) a tax hike, or b) a re-allocation of funds (i.e. cuts in other areas) from other taxpayer-funded endeavors."

**PAINTSQUARE NEWS TOP 10**
[paintsquare.com/news](http://paintsquare.com/news), May 6-June 2

- 1. University Warns About Antimicrobial Paints**
- 2. AG Audit: PennDOT Diverted \$4.2B from Repairs**
- 3. Contractor Sentenced for Defrauding NYSDOT**
- 4. Offshore Platforms Corroded Prior to Oil Spill**
- 5. FIU Bridge Builder to Pay \$42M to Families**
- 6. SC Bridge Temporarily Closed Due to Heat**
- 7. Dams to be Removed in CA, OR**
- 8. OH Firm Cited for Using Inferior Coatings**
- 9. OSHA Releases Final Rule for Various Standards**
- 10. World's Widest Suspension Bridge Opens in Egypt**





Fig. 1: Location of the coating failures on thin-gauge metal. Note that the delamination initiated at an edge of the galvanized steel. Figures courtesy of KTA-Tator, Inc.

## Delamination of Coatings from Thin-Gauge Metal Sheetting

BY RAYMOND S. TOMBAUGH, PCS, KTA-TATOR, INC.

**T**hin-gauge metal sheetting (including electrogalvanized, aluminum, copper and stainless steel) is commonly used in the building construction industry for flashing, building panels and decorative features. In many applications, the thin-gauge metal is painted, and problems arise when the surface preparation does not impart adequate surface roughness, or profile. Coating delamination can occur after exposure to temperature fluctuations where the thin-gauge metal expands and contracts or flexes.

This month's failure investigation was selected from several investigations related to failures that occurred on thin-gauge metal substrates. In all instances, the originally specified surface preparation methods (abrasive blast-cleaning or treatment with a phosphoric acid-based etchant) were revised to only require hand- and power-tool sanding prior to painting.

### THE CASES

Epoxy primer and fluoropolymer finish systems exhibited delamination several months after installation. The coated thin-gauge metal surfaces had been subjected to significant temperature changes between summer months when the coating system was applied (surface temperatures up to 120 F), and cold winter temperatures (below freezing). The failures often originated at edges, seams, solder joints or on complex surfaces. The failures were most common on the south and west sides of the buildings where the highest temperatures would occur as a result of sun exposure.

Examination of the substrate showed varying degrees of surface scarification. In some cases, there were barely any scratches visible, while other areas had dense scratches. Whether significantly scarified or not, surface profile was almost always greater than 1 mil (25 µm).

The adhesion of the coating varied on all

structures that were examined. About half of the adhesion tests indicated good adhesion (ASTM D6677 value of 8 or 10), approximately 40% of the tests indicated poor coating adhesion (ASTM D6677 value of 0 or 2), and approximately 10% of the tests indicated moderate adhesion (ASTM D6677 value of 4 or 6). Coating adhesion often varied at any given location that was examined; that is, testing conducted a few inches away from delaminated coating and areas of poor adhesion revealed excellent adhesion.

Interestingly, one of the structures examined included thin-gauge electrogalvanized components that had been exposed to the atmosphere for an extended time prior to coating. The surface appeared typical of a weathered surface. The coatings applied to these surfaces were tightly adhered and no failures were observed.

All coating samples were collected and submitted to the laboratory for analysis. Cross-sectional microscopic examination revealed that there was no direct correlation between coating thickness and coating failure.

Examination of the back sides of the coating chips revealed varying degrees of intersecting lines that replicated surface scarification.

The laboratory analysis also included testing for evidence of bond breakers (such as grease or oil) on the back of the delaminated coating by rinsing the backs of several chips with hexane. The rinsing was analyzed by infrared spectroscopy. No appreciable amount of hydrocarbon was detected.

Interpretation of the field and laboratory test data concluded that the delamination was a result of inadequate surface preparation. While scarification (sanding) of the surface was performed in almost every area examined, the degree of scarification varied and was insufficient to withstand the stresses imparted by the expansion and contraction of the substrate.

### DISCUSSION

In all instances, the originally specified and proven methods of surface preparation were abandoned and substituted with less rigorous

## INVESTIGATING FAILURE



Fig. 2: Galvanized steel that has a moderate amount of scarification.

hand- and power-tool sanding. The reason for the change was to simplify the surface preparation process and avoid the logistics and costs associated with abrasive blast-cleaning.

In the building construction industry, abrasive blast-cleaning is frequently avoided because of the difficulty and cost of performing the operations outside of a shop. For instance, mild steel surfaces are usually prepared and primed in the shop and then touched-up and finish-painted in the field. Abrasive blast-cleaning typically requires costly containment to prevent the introduction of dust to the environment and is often done in conjunction with other construction activities making the process even more challenging.

Nevertheless, abrasive blast-cleaning remains one of the more commonly specified surface preparation methods for thin-gauge metal surfaces, which are typically required to be cleaned in accordance with SSPC-SPI, "Solvent Cleaning," and abrasive blast cleaning is specified to be performed in accordance with SSPC-SP 16, "Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels and Non-Ferrous Metals."

In addition to the cost and logistical challenges associated with abrasive blast-cleaning, damage to the thin-gauge metal surfaces can occur if blasting is not executed properly. Thin-gauge metal may deform or buckle during brush-off blast cleaning. Deformation of thin-gauge metal substrates can be prevented by selecting softer abrasives, reducing the blast pressure, increasing the stand-off distance between the substrate and nozzle and moving the blast nozzle rapidly across the surface being roughened and cleaned.



Fig. 3: Copper surface with minimal scarification.



Fig. 4: Thin-gauge metal raised-seam roofing panels that buckled as a result of abrasive blast-cleaning.

While there are some chemical methods of surface preparation that can be used to properly prepare electrogalvanized surfaces, in some cases, these are ineffective. For example, galvanized metal can be treated with a phosphoric acid-based etchant in accordance with ASTM D6386, "Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting." However, if the galvanized steel is chromate treated to prevent rusting during shipment and storage, then the etchant will typically not work.

When chromate pre-treatments are applied to galvanized steel, the phosphoric acid-based etchant is not effective in preparing the surface of galvanized steel since the galvanized surface is resistant to the chemical reaction that cleans and converts the galvanizing to a paintable surface.

Industry standards recommend that

galvanized steel scheduled to be painted be ordered without the chromate treatment. However, if the treatment is applied, then abrasive blast-cleaning is the only method for preparing the surface of galvanized steel prior to painting, unless the galvanized surfaces are weathered prior to coating.

Representative areas of galvanized surfaces to be coated should always be tested for the presence of chromates or other passivating treatments before the application of a phosphoric acid-based etchant. The testing is accomplished by applying a copper sulfate solution to the surface of the galvanized steel. If the spot turns black, there is no passivation layer present.

Because of the problems and costs associated with abrasive blast-cleaning and the ineffectiveness of the phosphoric acid treatment on chromate-treated electrogalvanizing, hand- and power-tool sanding has often been attempted to prepare thin-gauge metal surfaces, as it was in the cases cited here. This approach is often endorsed by the coating manufacturer, since oft times surface-tolerant epoxy primers are used, and it is believed that these coatings will adhere to the scarified surfaces.

The use of hand- and power-tool sanding and grinding is discussed in ASTM D6386. The standard indicates that it is an acceptable method for preparing the surfaces of



## INVESTIGATING FAILURE

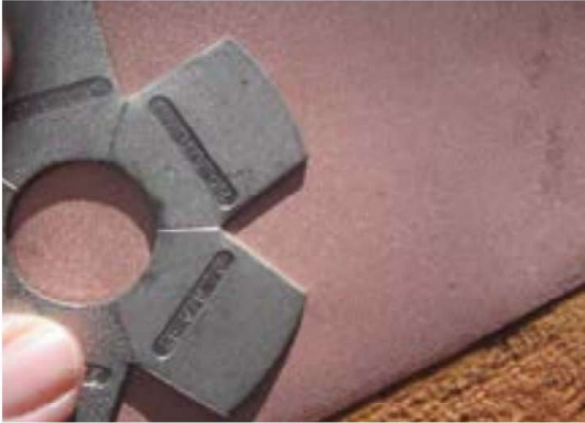


Fig. 5: Example of a densely profiled surface that can be achieved with the proper abrasive.

The problem with only specifying a surface profile depth is that it does not impose a peak density. As such, the degree of preparation tends to vary from one location to the next. Also, the surfaces requiring preparation are often complex, making consistent scarification impossible.

The decision to revise the surface preparation requirements must often be endorsed by the coating manufacturer and agreed upon by the asset

owner. Most manufacturers today have surface-tolerant coatings that are reported to adhere to minimally prepared surfaces. However, the probability of success is directly related to the degree of surface preparation and the inherent expansion and contraction of the substrate created by the service environment.

The selected coating system also impacts the

probability of success. For example, an acrylic system imparts substantially lower stress at the substrate interface and can adhere with a minimal amount of scarification. However, when an epoxy primer is used in a fluoropolymer system, a more rigorous method of creating a surface profile—including peak density—is required because the epoxies impart significantly higher stress at the substrate interface as they cross-link and cure. Further, a cross-linked coating system will be more rigid and less tolerant of thermal movement and flexing.

### OTHER CONSIDERATIONS

It is important to minimize the specified thickness, especially when epoxy primers are used. Except for steel sheeting, which is much less common, the other substrates are already corrosion-resistant in most environments, and the purpose of coating is primarily aesthetics. Therefore, thick epoxy applications are not required, and a 2–5-mil application is sufficient as a barrier coat.

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# INVESTIGATING FAILURE

**Table 1: Vapor Blast Testing Results.**

Blast Abrasive & Size	Pressure (psi)	Visual Observations	Profile Depth (mils)	Production Rate (ft <sup>2</sup> /min)
Plastic 30/40	30	Copper buckled. Variable peak density.	1.2–1.5	0.5
Plastic 30/40	50–55	Copper buckled. Variable peak density.	1.5	0.5
Crushed Walnut Shells 20/40	30	No visible surface profile. Left paint behind.	1.0	0.5
Crushed Glass 40/70	55	No buckling. Consistent peak density.	3.2	0.8
Crushed Glass 40/70	40	No buckling. Consistent peak density.	2.2	0.5
Glass Beads 70/140	55	No buckling. Consistent peak density.	1.8–2.2	0.4
Nickel Slag 50/100	30–40	Media didn't feed properly.	2.2	0.5
Crushed Glass 60/100	50	No buckling. Consistent peak density.	1.1–1.5	0.6
Glass Bead 40/70	50	Heavy buckling.	2.5	1.2
Crushed Walnut Shells 12/20	50	Variable peak density.	1.9	0.5
Crushed Glass 60/100 after Crushed Walnut Shells 20/40	50	Variable peak density. Profile is peened resulting in low peak density.	1.6	3.0

## FAILURE REMEDIATION

In the case studies discussed, once the cause of the coating delamination had been determined, appropriate remediation methods needed to be developed. Based on the available information, abrasive blast-cleaning was selected. Given that the substrates were relatively thin, the challenge was to develop an approach that would adequately profile the surface without deforming it, so field testing was performed to determine an optimum approach.

Vapor blast-cleaning was the method suggested for preparing the surfaces to minimize containment. Vapor-blasting utilizes a conventional expendable abrasive and a water-vapor spray. It removes coatings, contaminants, oxidation, corrosion and residues from hard surfaces. It is similar to wet abrasive blast-cleaning, except that it reduces airborne dust and uses significantly less water. In many cases, the water evaporates before it reaches the ground.

Copper test panels were selected to perform the field testing because copper was

the softest of the thin-gauge metals and was believed to deform more easily than the other substrates. Five different types of blast-cleaning abrasives were used for the testing, with sizes ranging from 12/20 to 70/140. Blast pressures ranged from 30–55 psi. Each of the methods were evaluated by visual examination for damage to the copper panels such as buckling, surface-profile depth, qualitative peak density assessments and production rate.

Surface-profile readings were obtained in accordance with ASTM D4417, "Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel, Method C—Replica Tape Method." The evaluation revealed that the condition of the prepared surfaces varied significantly depending upon which media was used and which blast-nozzle air pressure was used. Some of the tests resulted in buckling of the copper sheets, while others could not impart a dense anchor pattern. It was concluded that the most effective method for preparing the copper

surfaces was the use of 40/70 crushed glass at a nominal nozzle pressure of 50 psi (yellow highlighted row in Table I). This method was selected because it provided an acceptable profile with no evidence of damage to the copper. The results of the testing are provided in Table I.

The procedure was then tested in the field on the actual thin-gauge metal surfaces. When the surface preparation was performed in accordance with the test requirements, the surfaces were prepared without deformation, and the applied coatings were well-adhered.

## CONCLUSION

A combination of surface profile and peak density are very important when preparing any substrate, including thin-gauge metal, which tends to expand and contract more than metals with a thicker cross section. Hand- or power-sanding or scarifying can produce an inconsistent surface roughness that does not contain the density of peaks necessary for bonding of coatings that chemically cross-link and become very hard once cured. However, abrasive blast-cleaning can significantly distort thin-gauge metal, so optimizing the abrasive type and size, blast-nozzle pressure, nozzle-to-workpiece distance and dwell time are all important prior to production activities. Use of acid-based etchants may be possible on electrogalvanized sheeting, provided the surfaces have not been chromate-treated. Finally, optimizing coating film thickness is also important. The thinnest coating film that will still provide protection and aesthetic value is preferred to minimize the stresses impaired at the coating/substrate interface.

## ABOUT THE AUTHOR

Ray Tombaugh is a Senior Consultant for KTA-Tator, Inc. He is an SSPC-certified Protective Coatings Specialist, a NACE-certified Coating Inspector (Level III) and an ASTM D4537 Level III Inspector with almost 30 years of experience in the protective coatings industry. He holds a B.S. degree in chemical engineering from Lehigh University.





## ARE YOU A COMPETENT PERSON—AND WHAT DOES THAT MEAN, ANYWAY?

BY ALISON B. KAELIN, CQA, ABKAELIN, LLC

**O**SHA regulations, specifications, standards and other documents often refer to the “competent person.” You may believe you are a competent person because you took a class or because someone gave you that title, but that is not necessarily the case.

What does it actually mean? When is a competent person required? Do employers and the assignee understand the roles and responsibilities, as well as the risks, when performing or assigning duties to a competent person?

A “competent person” is defined by OSHA in 29 CFR 1926.32(f) as “one 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.”

Some industrial painting operations that require competent persons under existing OSHA standards applicable to construction (29 CFR) are listed in Table I (p. 14). Similar requirements apply to general industry and shipyards.

The lead, cadmium, beryllium and silica standards also add a few requirements. Some standards (such as those for scaffolding and

excavation) have additional training requirements for the competent person. The SSPC QP 2 definition adds the public and the environment to those who are to be protected and requires specific initial and annual training and experience.

When you add it all up, there are two distinct parts to being a competent person.

1. **Capability/Competence:** One must be able to identify existing and predictable hazards in the surroundings or working conditions that are unsanitary, hazardous or dangerous to employees, the public and/or the environment, including existing and potentially hazardous coatings or materials. This person must also have the knowledge and ability to employ the proper control methods to protect workers and fulfill responsibilities as defined by the standard.
2. **Designation/Authorization:** The person is designated by the employer to act on the employer’s behalf and has the authorization to take prompt corrective measures to eliminate hazards.

The comprehensive health standards identify additional duties and responsibilities of a competent person to include at least the following:

- Determining when hazardous coatings are

present in the workplace, prior to the performance of work;

- Establishing and demarcating, where necessary, regulated areas and assuring that access to and from those areas is limited to authorized employees;
- Assuring the adequacy of any employee exposure monitoring required by this standard;
- Assuring that all employees exposed to hazardous coatings above the PEL wear appropriate personal protective equipment and are trained in the use of appropriate methods of exposure control;
- Assuring that proper hygiene facilities are provided and that workers are trained to use those facilities;
- Assuring that the engineering controls required by this standard are designed, implemented, maintained in proper operating condition, and functioning properly; and
- Performing frequent and regular inspections of jobsites, materials and equipment.

### COMPETENCE/CAPABILITY

Being the competent person is more than a job title, role or designation—it creates a legal obligation for the person assigned or performing the role. He or she needs to be qualified to identify the hazards associated with a particular operation. Multiple competent persons with varying degrees of training and experience may be required on a typical industrial paint project.

Competence is generally the knowledge that comes from a combination of skills, direct experience and training. Some certification bodies require competent persons to obtain hours of initial training, years of work experience and annual refresher training—but does that alone make someone a competent person? The answer is no.

OSHA (in a standard interpretation on scaffolding) recognizes that successful completion of a course does not, alone, necessarily establish an individual as a competent person for a number of reasons. By its terms, the definition of a competent person compels the employer to select an employee based upon his or her capability to identify hazards. The course may not be sufficiently comprehensive with respect



# WHAT YOU NEED TO KNOW

**Table 1: Industrial Painting Operation Requiring Competent Persons (OSHA 29 CFR).**

1910.66	Powered Platforms for Building Maintenance
1910.66	App C, Powered Platforms, Man Lifts, and Vehicle-Mounted Work Platforms, Personal Fall Arrest System (Section I – Mandatory; Sections II and III – Non-Mandatory)
1926.20	General Safety and Health Provisions
1926.62	Lead
1926.101	Hearing Protection
1926.251	Rigging Equipment for Material Handling
1926.354	Welding, Cutting and Heating in Way of Preservative Coatings
1926.404	Wiring Design and Protection
1926.451	Scaffolds
1926.454	Scaffolds, Training Requirements
1926.500	Fall Protections, Scope, Application and Definitions Applicable to this Subpart
1926.502	Fall Protection Systems Criteria and Practices
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)
1926.503	Fall Protection, Training Requirements
1926.552	Material Hoists, Personnel Hoists and Elevators
1926.803	Compressed Air
1926.1053	Ladders
1926.1060	Stairways and Ladders, Training Requirements
1926.1127	Cadmium
1926	Subpart CC Cranes and Derricks in Construction (numerous standards in this subpart require a competent person)
1926.1124	Beryllium
1926.1127	Cadmium
1926.1128	Respirable Crystalline Silica

to the information needed to meet the knowledge requirement in the definition. Remember that the type and extent of knowledge required will vary based on what is necessary to successfully perform the task in the standard. Also, the course may not adequately test the employee's understanding of the course material.

Passing a course alone does not determine one's competency. Competence is demonstrated, not certified. Part of that demonstration entails being able to perform the required functions, such as immediately identifying and correcting any hazards that may appear. If that person is unable or unwilling to do so, he or she would not fit the definition of competent person.

OSHA compliance officers will be quick to tell you that not everyone meets the "competent person" designation. The fact is that nobody is competent in all areas of safety. General safety courses such as the OSHA 10- and 30-hour courses are good for general education, but do not deeply address areas in which competency is required.

So, how does one assess competency? It should include a task-based assessment of the work-related skills and behaviors needed to perform the duties of a competent person. For example, shown an unacceptable jobsite condition, can the competent person recognize it, know what to do about it and how to document it?

## AUTHORIZATION/ DESIGNATION

A competent person must not only recognize hazards, but also be in a position to mitigate them. Employers must identify, designate and authorize competent persons to take corrective action. Because many different types of activities can take place on a worksite, a competent person must either have the authority to make safety-related changes to those different operations or be able to enforce that changes are made by others.

Based on this author's observations, nearly every industrial painting contractor has authorized a "safety guy" or "competent person" for lead, scaffolding and other operations and can show you the memo and certificate to prove it. However, too often they fall into one of two groups, neither of which meets the intent of the definition of a competent person.

- I. Competent, But Not Authorized: The "safety guy" or "competent person" is allowed to put up signs and fill out checklists, but rarely authorized to take meaningful action such as shutting down production or changing engineering controls. Often his or her suggestions or recommendations require approval

of the foreman or production supervisors or are dismissed out of hand as too costly. If the competent person can't effect change through stopping work, requiring training, purchasing equipment or adjusting controls and work practices without permission from someone in production or project management, he or she is not a competent person.

2. Authorized, But Doesn't Care or Won't Take Action: In this case, the competent person is really a production supervisor, foreman or other worker but wearing the title of competent person. This person is generally too busy to take action or considers working conditions that are unsanitary, hazardous, or dangerous to employees, public and environment to be insignificant compared to production matters. If the competent person won't identify and document issues or take corrective action regarding predictable hazards, he or she is not competent person.

## CONCLUSION

Competent persons generally are the employer's most knowledgeable official on-site when it comes to identifying and eliminating hazards.

During investigations, OSHA and SSPC auditors generally identify and interview competent persons to identify their competency and authority and interview employees to determine if they know who competent persons are for various hazards.

Do you know who your competent persons are? Have you formally documented who is the competent person for the hazards on your jobsite? Are these individuals truly competent and authorized to protect your liability and workforce? If not, it's time to act.

## ABOUT THE AUTHOR



Alison B. Kaelin is the owner of ABKaelin, LLC and a JPCL contributing editor who has over 30 years of health, safety and construction management experience in the coatings industry.

Kaelin was recently elected to serve on SSPC's Board of Governors.



## PPE REQUIREMENTS FOR POLYURETHANES VERSUS NON-ISOCYANATE COATINGS:

# IS THERE REALLY A DIFFERENCE? BY LEAH K. TIPTON, KTA-TATOR, INC.

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Isocyanates are reactive chemicals often used in foams, elastomers, fibers and polyurethane paints. Exposure to isocyanates has been reportedly linked to irritation of the mucous membranes of the eyes, gastrointestinal and respiratory tracts. More serious health effects include asthma and inflammation of the lungs. In the protective coatings industry, exposure to isocyanates may occur during the mixing or application of polyurethane paints. The word isocyanate on a product label or safety data sheet (SDS) might prompt the user/specifier to select an alternative coating such as a product labeled as green or environmentally friendly. In some cases, facility owners and/or contractors have reportedly been reluctant to specify or use polyurethane coatings, based upon the belief that coatings containing isocyanates have more stringent personal-protective-equipment (PPE) requirements than those for application of coatings that do not contain isocyanates. A study was conducted to investigate this belief and determine if recommended PPE requirements differ between polyurethane and non-isocyanate-containing coatings.

### EVALUATION METHODS

The study included the evaluation of 22 coating systems, falling into six coating groups: polyurethanes (containing isocyanates), epoxies, zincs,

polysiloxanes, alkyd products and acrylic products. For each of the 22 coating systems, seven products from at least three manufacturers were selected, for a total of 154 products.

Each product was evaluated according to its product/technical data sheet (PDS/TDS) and its SDS. The assessment of the PDS/TDS focused on the recommended application method (spray or brush/roller) and intended use(s), generally, industrial maintenance painting, concrete flooring and/or automotive refinishing.

The assessment of the SDSs focused on the PPE requirements of each product, and in turn, these PPE requirements focused on four categories: hand protection, skin/body protection, eye/face protection and respiratory protection. For each of the four categories of PPE, the requirements were classified into one of the following categories:

1. PPE is not required (or not addressed).
2. PPE use is dependent upon concentration of the hazardous components during use, the tasks performed, or the site-specific conditions, (i.e., use PPE, as appropriate).
3. PPE is required (type may be specified or unspecified).

These PPE requirement categories are illustrated visually in Table 1 (p. 16).

The PPE requirements (of the 154 products evaluated) falling into each category illustrated in Table 1 were tallied for each of the













six coating groups. The PPE requirement with the largest number of products was identified as the predominant PPE requirement for that coating group. For example, if a coating group was composed of 28 products and 21 of them required eyewear, the eye/face requirement for this coating group would be listed in red (eyewear required).

### PPE REQUIREMENTS NOT SPECIFIC TO APPLICATION TYPE

The predominant PPE requirement for each coating group is illustrated in Table 2 (p. 16). As shown, PPE requirements between polyurethanes and non-isocyanate-containing paints did not differ. Generally, PPE requirements across all six coating groups were classified as yellow (PPE use is dependent upon concentration of the hazardous components during use, the tasks performed or the site-specific conditions). Only eye/face protection was classified as red (required by the SDSs across all six coating groups).

In the few cases where differences in PPE requirements between coating groups were found, PPE requirements for the non-isocyanate-containing coatings were more stringent than the polyurethane coating requirements. Specifically, the alkyd products (hand, skin/body protection) and acrylic products (hand protection in half of the evaluated SDSs)

**Table 1: SDS PPE Requirements.**

Gloves	Clothing	Eyewear	Respirator	SDS Requirement
				Not required (or not addressed)
				Concentration, Risk, Task or Site-Specific Dependent, As Appropriate
				Required

required more stringent protection compared to the polyurethanes.

For all six coating groups, the use of eye/face protection was a consistent requirement, whereas, most product SDSs did not require a specific type of protective glove, clothing or respirator. Many SDSs indicated that the use of protective gloves, clothing or respirator be based on the findings of a risk assessment (RA), site-specific conditions or the performance of a specific task such as spray painting.

Although little variability was identified between coating groups, some did exist within the coating groups (i.e., between the 22 different coating systems) and most was identified for hand and clothing requirements (Table 2). Hand PPE requirements varied primarily between always required or dependent upon site-specific conditions. Among the 22 coating systems, 46% (71) of the SDSs required hand protection while for 53% (82) of the SDSs, the requirements were dependent upon the site-specific conditions and one SDS did not require any hand protection.

The greatest variability was found between clothing PPE requirements. The SDS for 55% (85) of the products required protective clothing, while for 37% (57) the requirements were dependent upon site-specific conditions, and for 8% (12) the SDS did not require protective clothing.

Respirator requirements varied the least out of the PPE requirements. Most respiratory requirements (88%) were vaguely dependent

upon conditions (for example, instructing to use respiratory protection as appropriate). However, many SDSs did require respiratory protection under specific circumstances (for example, if concentrations of hazardous components are unknown, if applying the coating in a confined space or with insufficient ventilation). In the absence of any of these special circumstances, the majority of SDSs did not require respirator use for any of the 22 different coating systems.





















## SPRAY APPLICATION PPE REQUIREMENTS

The same evaluation process was repeated for all products to identify specific PPE requirements during spray application.

SDSs for 18% (27) of the evaluated products contained PPE requirements specific to spray application. For those 27 products, respirator protection was required during spray application. In addition to an increase in respiratory protection, one product specifically required additional clothing protection during spray application.

Though an increase in respirator requirements for spray application was noted for 27 products, there was no change to the overall classification of requirements between general respirator requirements (not specific to application type) and those specified during spray application—the PPE requirements between polyurethanes and non-isocyanate-containing paints did not differ even when the requirements were assessed by method of application.

**Table 2: Summary of General PPE Requirements (Not Specific to Application Type).**

	Gloves	Clothing	Eyewear	Respirator
Polyurethanes (n=56)				
Epoxies (n=28)				
Zincs (n=14)				
Polysiloxanes (n=14)				
Alkyd Products (n=28)				



## DISCUSSION

The primary route of entry for toxins during coating application is via the respiratory system. Coating application tasks can result in inhalation exposure to vapors and mists during mixing, application and curing following application<sup>1</sup>. During spray-painting operations, workers are at a greater risk of inhalation exposure compared to brush/roller application. Therefore, although not required by the majority of SDSs, best painting practice suggests a respirator should be worn during spray application of the coatings assessed in this evaluation. The type of respirator selected should protect against the exposure levels of the hazardous components in each product, determined through personal air monitoring. This recommendation falls in line with the SSPC painting manual, *Good Painting Practice* recommendation to wear goggles and the proper respiratory protection when spray painting or performing any operation where an abnormal amount of vapor or dust is formed<sup>2</sup>.

When selecting a respirator, product users should consider the specific hazardous materials in the product along with the added effect of the hazardous components in the product being used concurrently. The use of respirators as the sole means of compliance is not recommended. The use of engineering controls must be evaluated and implemented before relying on PPE.

Components of each product were identified as hazardous if the following criteria were met:

- Components were included in the SDS (per the OSHA Globally Harmonized System requirements);
- Components were identified in the National Institute for Occupational Safety and Health *Pocket Guide to Chemical Hazards* (NPG) and;
- Per the NPG, appropriate preventive measures to reduce or eliminate adverse health effects and accidental injuries were included.

Many of the hazardous components, such as organic solvents identified for each product, required all forms of PPE (eye and/or skin and/or respiratory) per the NPG's suggested preventative measures. The chemicals or substances contained in the NPG include all substances

for which NIOSH has recommended exposure limits and those with permissible exposure limits as found in the OSHA General Industry Air Contaminants Standard (29 CFR 1910.1000). However, although a component of a product may not have an REL or PEL, worksite industrial hygienists/safety professionals or product users must evaluate all workplace chemical hazards, including those hazards not presently covered by an established limit.

## CONCLUSIONS

Based on the classification system described in this article, the results of the evaluation indicate the PPE requirements specified in SDSs did not substantively differ between polyurethanes and non-isocyanate-containing coating systems.

Only the alkyd products (hand, skin/body protection) and acrylic products (hand protection in half the evaluated SDSs) required more stringent protection compared to the polyurethanes. Protective eyewear was required across all coating groups. Although an SDS may not require PPE, it is recommended practice to wear appropriate PPE until personal-exposure monitoring determines the chemical hazards are below the occupational exposure limits.

Although little variability was found between the six coating groups, variability did exist within the coating systems comprising these six groups. An increase in respiratory protection was required during the spray application of 18% of the products, but overall this variability did not result in a significant difference in PPE requirements during the application of the coatings by spray or brush/roller.

Although not readily apparent in Table 2 and not a specific component of this study, the assessment of the 154 SDSs revealed that the detail and quality of the SDSs varied considerably between manufacturers. Little variability was identified among SDSs supplied by the same manufacturers, i.e., in general, manufacturers did not alter the PPE requirements between products in different coating groups. In addition, many of the SDSs left uncertainty regarding PPE requirements. Except for the eyewear requirements, most glove, clothing and respiratory requirements were recommended as appropriate (i.e., dependent upon the concentration of the hazardous components, the

task, site-specific conditions or required a risk assessment). Therefore, the SDS authors avoided definitively specifying PPE. The SDS language was generally crafted in a way to defer the responsibility of determining the appropriate PPE to the workplace industrial hygienist/safety professional or the product end user.

Although not always requiring PPE, many polyurethane SDSs contained special isocyanate warning statements. For example, individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapor or spray mist. Hazardous-component warning statements were not found in the evaluated SDSs for non-isocyanate-containing coating systems.

Conclusions drawn from the assessment of reported PPE requirements for the products evaluated during this study may not be applicable to other products on the market or future products.

Even if not specified in the SDS, good practice dictates that gloves, goggles and a face mask should always be used when applying any coating.

## ABOUT THE AUTHOR



Leah Tipton is the EH&S Project Manager at KTA-Tator, Inc. She holds a Doctor of Public Health degree in Environmental and Occupational Health.

Tipton has expertise designing and executing air-quality studies including indoor, outdoor and personal-monitoring campaigns.

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# THE EFFECT OF FEATHERING ON COATING PERFORMANCE

BY PATRICK CASSIDY AND MICHAEL KIBLER, ELZLY TECHNOLOGY CORPORATION;  
AND CAMERON MILLER, PAUL SLEBODNICK AND JAMES MARTIN, U.S. NAVAL RESEARCH LABORATORY

Feedback from water-front personnel performing maintenance painting for the U.S. Navy has consistently questioned the Navy's requirement for performing feathering. NAVSEA Standard Item (NSI) 009-32' defines feathering as tapering the edges of tightly adhering old paint at an approximate 30-degree angle into the newly prepared bare metal surface and requires that the contractor "feather edges of well-adhered paint remaining after cleaning for all surface preparation methods."

The requirement is impractical because feathering at a 30-degree angle on a 20-mil-thick coating would only give a 40-mil-wide feathered border. Performing and inspecting work to this requirement is not feasible. Feathering is a time-consuming and laborious process, which is further complicated by the legacy requirements, causing extensive rework on maintenance-painting jobs. Figure 1 shows an example of feathering performed as part of surface preparation to SSPC-SP 3<sup>2</sup> prior to application of the repair coating system

in a void space.

The U.S. Naval Research Laboratory performed an industry survey to better define feathering and improve or clarify the Navy's requirements. During this literature review, a February 2015 article in JPCL written by Mark Dromgool was found<sup>3</sup>. The article focuses on effective maintenance-painting practices for offshore structures and states the following.

"Importantly, the surface preparation ought not to include feathering the edges of the existing coating as this will stress the bond at the critical point: the juncture where the coating has been fractured and where the bare substrate is exposed. By all means, ensure that the edge that has been reached is sound, but then stop there. The only areas [to feather are] where an adverse aesthetic situation might exist in highly visible areas. The extra time and effort to perform a low yielding task like feathering edges would be better spent on actual surface preparation on other breakdown zones."

This position on the importance (or rather unimportance) of feathering was unique in the literature review, as feathering seemed to be a best practice both in industry and within

Fig. 1: Feathered intact legacy coating in preparation for maintenance painting. Figures courtesy of the authors.

the military when performing repair work. Feathering was commonly cited as important for smooth transition and adequate adhesion of new coating systems and for ensuring legacy coatings were sound and adherent.

NRL designed a program to test the hypothesis that feathering does not affect repair coating system performance. No quantitative data was found to support or refute the need for feathering, only anecdotal data. The objective of the NRL test program included the following:

- Determine the impact of feathering on long-term coating performance in repair areas;
- Collect metrics associated with the labor costs for performing feathering;
- Define feathering and the optimal feathering process that can be contractually invoked by the Navy without incurring increased rework costs; and
- Weigh the potential benefits of feathering with the associated costs in a cost-benefit analysis to determine if feathering is a value-added step in the repair process.

## EXPERIMENTAL PROCEDURE

To ensure that the evaluation of feathering was comprehensive, testing was broken down into two different scenarios: laboratory testing and an industrial demonstration on a mock ballast tank.

Primary surface preparation in this effort was defined as the method/tool used to remove the failed legacy coating and achieve the specified SSPC surface-preparation cleanliness standard on the exposed substrate area. The primary surface preparation method was used to remove all compromised coating around the repair area until intact, tightly adherent paint was reached. Feathering was defined as a secondary preparation step performed after the primary surface preparation method was complete.

The testing defined three primary surface-preparation methods for performing coating repair.



**Table 1: Legacy Coating Application Matrix.**

Legacy Coating System	4"x6" Panels	6"x12" Panels	Total	Avg. DFT (mils)
Ultra-high-solids (UHS) Epoxy	36	18	54	17.1
Polyamide Epoxy	36	18	54	4.6
Total	72	36	108	

1. Spot-abrasive blasting with 36-mesh virgin aluminum oxide mineral grit. Spots met SSPC-SP 6 level of cleanliness<sup>4</sup>.
2. Spot power-tool preparation using a needle gun. Spots met SSPC-SP 15 level of cleanliness<sup>5</sup>.
3. Spot power-tool preparation using a bristle-impact tool. Spots met SSPC-SP 15 level of cleanliness.

The feathering procedures were defined based on the literature review and industry best practice for feathering.

1. Power-tool feathered: Feather 1–2 inches back from the bare substrate onto the intact coating to create a smooth transition using a rotary sander or grinder with 100-grit paper.
2. Hand-tool feathered: Scuff sand by hand, a 1-inch-wide strip around the border of the intact coating with a 100-grit sanding block.
3. Not feathered: No secondary preparation required.

## LABORATORY TESTING

### Specimens and Matrix

A total of 108 steel panels (ASTM A36 grade<sup>6</sup>) were abrasive-blasted to SSPC-SP 10<sup>7</sup> cleanliness using garnet abrasive to a 2–3-mil surface profile. Profile-depth readings were taken on each panel in accordance with ASTM D4417 Method B<sup>8</sup> and SSPC-PA 17<sup>9</sup>. The average profile was 2.7 mils.

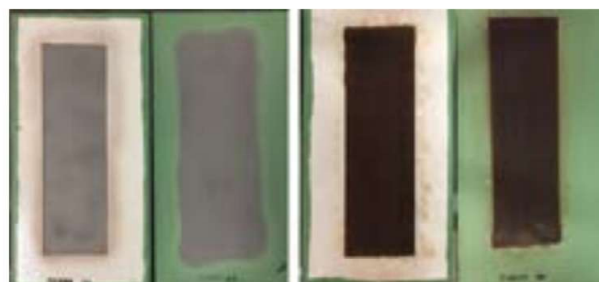


Fig. 2: Panels after primary surface preparation. From left, two spot-abrasive blast and two power-tool methods.

the manufacturer product data sheets. Dry-film-thickness (DFT) measurements were taken on each panel in accordance with ASTM D7091<sup>10</sup> and SSPC-PA 2<sup>11</sup>.

### Artificial Pre-Weathering

A razor knife was used to score the holiday area, exposing bare substrate. All panels were then pre-weathered by subjecting them to 300 hours in ASTM G85-A5 cyclic-salt-fog testing<sup>12</sup>.

### Primary Surface Preparation and Feathering

Upon removal from salt fog, the holiday in each panel was spot-prepared with the primary surface preparation method. Multiple solvent wipes and freshwater rinses were used as necessary to meet the cleanliness standard.

Spot-blasted panels and power-tooled panels were prepared to SSPC-SP 6 and SP 15 cleanliness standards, respectively (Fig. 2). Surface-profile depth was measured as before. The average profile of the spot abrasive-blasted panels was 2.1 mils, the average profile of the needle-gun panels was 2.5 mils and the average profile of the bristle-impact panels was 1.4 mils.

One-third of each set of panels was feathered in accordance with each of the three secondary feathering procedures listed previously.

The non-feathered panels maintained their original appearance because no secondary preparation was performed. The amount of time to complete the primary and secondary preparation on each panel was timed and recorded.

A high-solids (HS) epoxy repair coating system was applied using a 1/4-inch-nap synthetic roller in a single coat to each panel in accordance with the manufacturer's product data sheets. The average DFT in the repair area was 9.3 mils. Panels were scribed using a 1/8-inch-diameter-mill bit so

Two different types of legacy coatings were used on the panels (Table 1). Coatings were applied via airless spray in accordance with

that the scribe intersected the repair area diagonally, extending past the transition zone.

Half of the panels were subjected to 10 cycles (20 weeks) of modified ASTM D5894 cyclic salt fog/UV exposure test<sup>13</sup>. The test included a one-day exposure each week in a refrigerated chamber at a temperature of ~-20 C, which is the modification from ASTM D5894. The other panels were subjected to an alternate natural seawater exposure, consisting of a 12-hour dry/12-hour wet cycle, for 20 weeks.

### INDUSTRIAL MOCK-BALLAST-TANK DEMONSTRATION

To gain experience and test data in an industrial environment and augment the laboratory testing, a demonstration was conducted on a mock steel ballast tank located in Norfolk, Virginia.

All prior loose and failed coating was removed from the mock tank. The average DFT of the existing coatings on the mock tank was 41.2 mils with readings ranging from 21.7–63.5 mils depending on the location. Twenty-one 1-foot squares were laid out across the tank walls, seven squares for each feathering method. A razor knife was used to score the coating system down to the steel around the periphery of the square. Multiple coats of legacy paint were present.

A heat-induction unit and a 4.5-inch, coarse, rapid-strip disc were used to remove the coating from inside the test patch. The test patches were sprayed with artificial seawater weekly to pre-weather for one month and allow the build-up of corrosion product and undercutting of the exposed coating edges.

After the pre-weathering step, the entire tank was washed with freshwater to remove salt and rust deposits via low-pressure water-cleaning (LP WC) as defined by the SSPC-SP WJ surface preparation standards<sup>14</sup>. All patches were then prepared to SSPC-SP 15 using a bristle-impact tool. All loose and failed coating was removed until tightly adherent coating was reached. The edges of the coating were probed with a dull putty knife to determine adherence. Profile depth was measured as before. Average profile depth was 1.7 mils.

Seven test patches were prepared per the feathering methods described previously



# THE EFFECT OF FEATHERING ON COATING PERFORMANCE

(Fig. 3). The amount of time to complete the primary and secondary preparation steps on each test patch was recorded. A final solvent wipe was completed, and soluble salt readings were taken using the Bresle patch method on every test patch with an average result of 65 microsiemens.

One coat of the same UHS epoxy repair coating used for lab testing was applied to test patches 1–14. The repair coating was overlapped a minimum of 2 inches onto the intact coating on all sides. One coat of the polyamide epoxy repair coating used for lab testing was applied to test patches 15–21. A second coat of polysiloxane topcoat was applied to test patches 15–21 to complete the two-coat system (Fig. 4). All coatings were applied using a ¼-inch-nap synthetic roller. The average DFT of the one-coat UHS epoxy repair system was 15.1 mils and the average DFT of the two-coat epoxy/polysiloxane repair system was 12.5 mils.

## RESULTS

### Laboratory Testing

#### VISUAL/DESTRUCTIVE RATINGS

Laboratory test panels were destructively inspected after 20 weeks of exposure in the two respective environments. Panels were rated visually for rust-through and blistering in accordance with ASTM D61015 and ASTM D71416, respectively. Cutback was measured at the maximum point of visual corrosion product after destructive removal of the coating adjacent to the scribe. All panels were probed for coating disbondment at the coating transition area and in the center repair area. Figure 5 shows the results of destructive testing and visual inspection of the laboratory panels subjected to twenty weeks of cyclic accelerated testing.

Figure 6 shows the results of the destructive testing and visual inspection of the laboratory test panels subjected to 20 weeks of alternate seawater immersion.



Fig. 3: Mock-tank test patches after secondary (feathering) surface preparation.

#### AVERAGED QUANTITATIVE RESULTS

The maximum cutback measured at the scribe was averaged across the coating systems and binned into two groups: primary and secondary prep methods. The data was then plotted against each unique primary/secondary method in order to identify any independent variables that might be influencing coating performance (Fig. 7, p. 22). The cyclic testing showed little variation for both methods; however, alternate immersion panels showed significantly more cutback when tool use was the primary prep method and when power-tool feathering was employed.

The rust-through ratings were also averaged and binned in the same manner. A rating scale of 0–10, where 10 equals no rust-through, was used to assign a condition for each panel. Alternate immersion did not distinguish any performance differences in terms of primary or secondary preparations methods. The cyclic testing again showed that the best primary prep method was spot-abrasive blast, as one would expect (Fig. 8, p. 22).

Finally, blister ratings were averaged and binned as above; a visual blister rating of 0–10 was assigned to each panel, where 10 equaled no blistering. ASTM D714 size and density ratings were combined and normalized for plotting purposes; the blister data is plotted in Figure 9 (p. 23).

Both cyclic and full-immersion testing exhibited the same trends with both prep methods. There was little difference observed across the three feathering methods.

Overall, the evaluations showed no notable variation between the feathering methods except in cutback rating where the standard power-tool feathering method proved to be a detriment. It should be noted that power-tool feathering was noticeably worse when used in combination with spot-abrasive blast as the



Fig. 4: Mock tank after repair primer.

primary prep method. This phenomenon is observed because the blasted profile is polished by the rotary tool.

## STATISTICAL FINDINGS

### AND CONCLUSION

Statistical software was used to perform analysis of variance (ANOVA) general linear model (GLM) with Tukey Honest Significant Difference (HSD) post-hoc tests. This was done on the averaged values to determine the significant independent variables (i.e., feathering method, primary prep method) influencing the inspection ratings and measurements (the dependent variable) seen in each experiment to a 95-percent confidence band ( $p < 0.05$ ).

None of the feathering methods was identified as being statistically significant from any other feathering method. In other words, we can say with 95-percent confidence that of the three feathering methods employed, there is no difference in performance. Spot-abrasive blasting was identified as being statistically significant in terms of better overall coating performance when compared to the two power-tool preparation methods, which was expected.

Analysis of the data showed an average labor savings of 15 percent by not feathering. The savings differed based on the coating type. The higher film thickness and tougher UHS epoxy was harder to feather and increased primary and secondary preparation time indicating the savings afforded by not feathering may be higher for UHS coatings.

## INDUSTRIAL MOCK-BALLAST-TANK DEMONSTRATION

The industrial mock-ballast-tank demonstration was inspected at 12 months after the



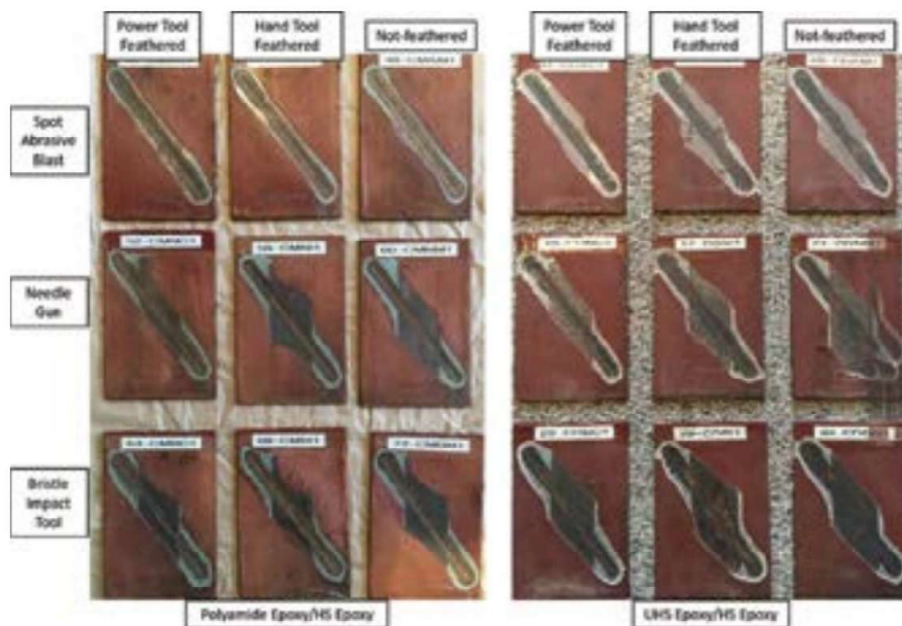


Fig. 5: Visual results after 20 weeks of cyclic accelerated testing.

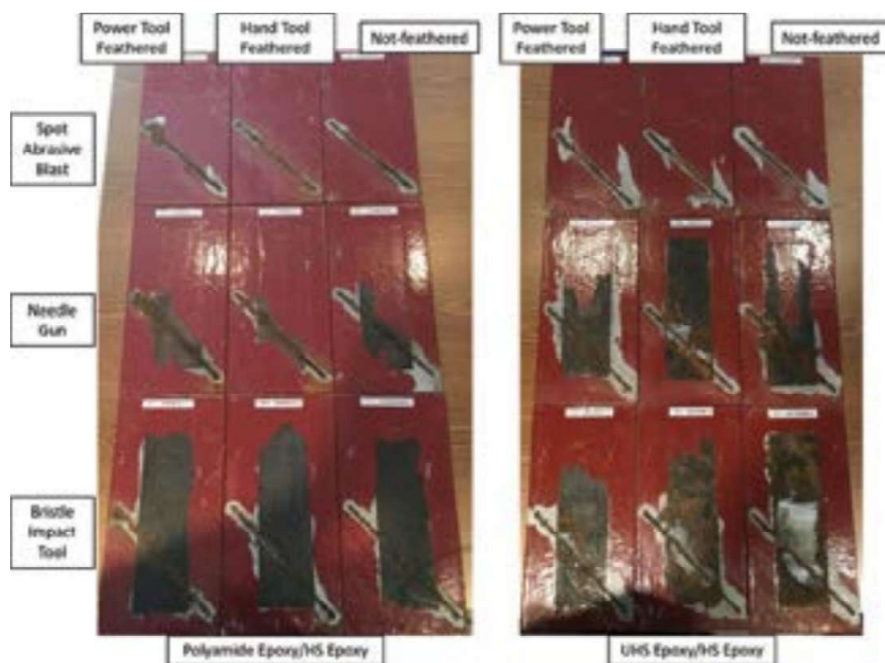


Fig. 6: Visual Results after 20 weeks of alternate seawater immersion testing.

**Table 2: Industrial Demonstration Inspection Results by Feathering Method, 12 Months.**

Feathering Method	Avg. ASTM D610 Rating	% of Test Patches with Lifting Coating
Power-Tool-Feathered	9.57	14%
Hand-Tool-Feathered	9.57	71%
Not-Feathered	9.71	14%

repair coatings were applied. The mock tank had been sprayed with artificial seawater twice a week for two months to simulate sea spray. Each test patch was rated visually for rust-through and blistering as before. The test patches were probed for lifting edges or disbondment at the transition area. Tables 2 and 3 (p. 22) show the results of the inspection for rust-through and lifted coating. There was no evidence of blistering observed.

The rust-through results are an average of the rating of all seven test patches for the particular feathering method. Rust-through was observed predominantly in the bare steel repair area immediately adjacent to the intact legacy coating. This phenomenon held true for all areas whether feathering was performed or not. All feathering methods showed equivalent minor coating breakdown. The hand-tool-feathered areas showed the greatest amount of lifting. The areas repaired with the two-coat system showed no breakdown and very little lifting, while the one-coat UHS epoxy primer showed minor breakdown and more substantial lifting. This suggests that a two-coat system (even with a lower overall DFT) may perform better in repair scenarios than a single-coat repair system. Analysis of the productivity data showed that on average, the non-feathered test patches took 10–20 percent less time to prepare than the hand-tool-feathered or power-tool-feathered patches.

## CONCLUSIONS

The current Navy requirement in NSI 009-32 for feathering to a 30-degree angle is not achievable from a technical standpoint and is impractical to perform and inspect. By changing this requirement to a 1–2-inch border on the intact coating around the repair area, the quality assurance and quality control inspection requirements are reduced and simplified. This will prevent disagreements between contractors and inspectors over the intent and definition of the legacy requirement, with the end result being less rework.

NRL testing showed that feathering as a secondary-surface-preparation step is a non-value-added step in the touch-up process (i.e., feathering does not positively impact coating service life for the associated

## THE EFFECT OF FEATHERING ON COATING PERFORMANCE

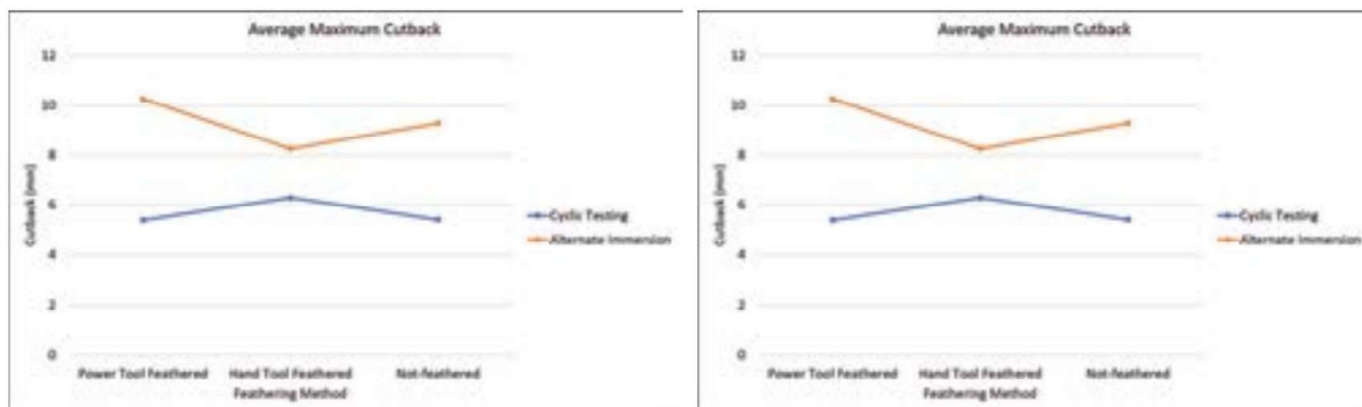


Fig. 7: Cutback results from immersion and cyclic testing.

cost). Feathering is not necessary for spaces that do not require aesthetically pleasing repair coatings such as tanks and voids, and machinery spaces, as feathering has been shown to not influence nor increase the longevity of the coating system. Laboratory testing and the industrial demonstration both showed consistent results when comparing

specified SSPC surface-preparation standard using the primary preparation method. The data does show that instead of feathering, time would be better spent cleaning and preparing the surface to a higher surface-preparation cleanliness level or applying additional paint to the repair area. For example, there was a noted susceptibility across all feathering methods

requirements in NSI 009-32 and NSTM 631 in which feathering will be defined as being used primarily for cosmetic or aesthetic reasons and will no longer be required in tanks, voids, machinery spaces or bilges.

**Table 3: Industrial Demonstration Inspection Results by Coating System, 12 Months.**

Coating System	Avg. ASTM D610 Rating	% of Test Patches with Lifting Coating
One-coat	9.43	43%
Two-coat	10	14%

the performance of non-feathered repair areas to feathered repair areas. The laboratory testing and the industrial demonstration both showed between 10–25-percent labor savings when feathering was not performed.

It should be stressed that removal of the feathering step does not nullify the requirement to remove all loose paint and corrosion product, which shall be performed to the

for pinholes to develop at the transition area from intact coating to bare steel. Application of a stripe coat along the repair perimeter to mitigate this effect might add more value than performing feathering. This would not necessarily need to be a step added to the process but could be applied just prior to the full coat.

Based on the outcome of this testing, changes will be made to the feathering

### ABOUT THE AUTHORS



Patrick Cassidy has been working in the corrosion and coatings industry for over 10 years and is currently a Senior Engineer with Elzly Technology Corporation. He has

been involved in a diverse number of programs including coatings research, field investigation and application of corrosion control products. Cassidy is an SSPC-certified NAVSEA Coatings Inspector, a SSPC-certified Thermal Spray Inspector, a NACE-certified Shipboard Corrosion Inspector, and has completed additional training in NAVSEA Cathodic Protection Design. In 2015, he was profiled in the JPCL annual

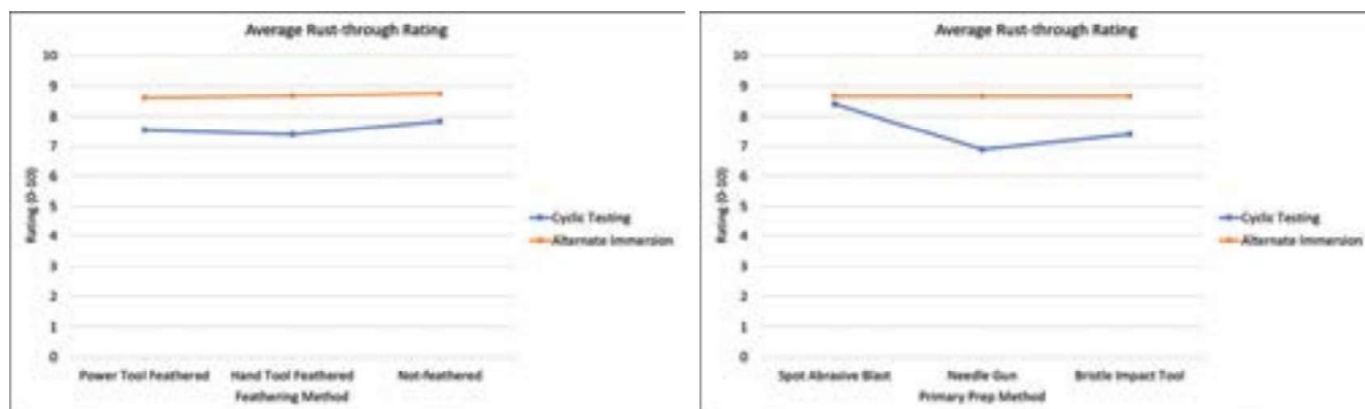


Fig. 8: Rust-through rating for immersion and cyclic testing.



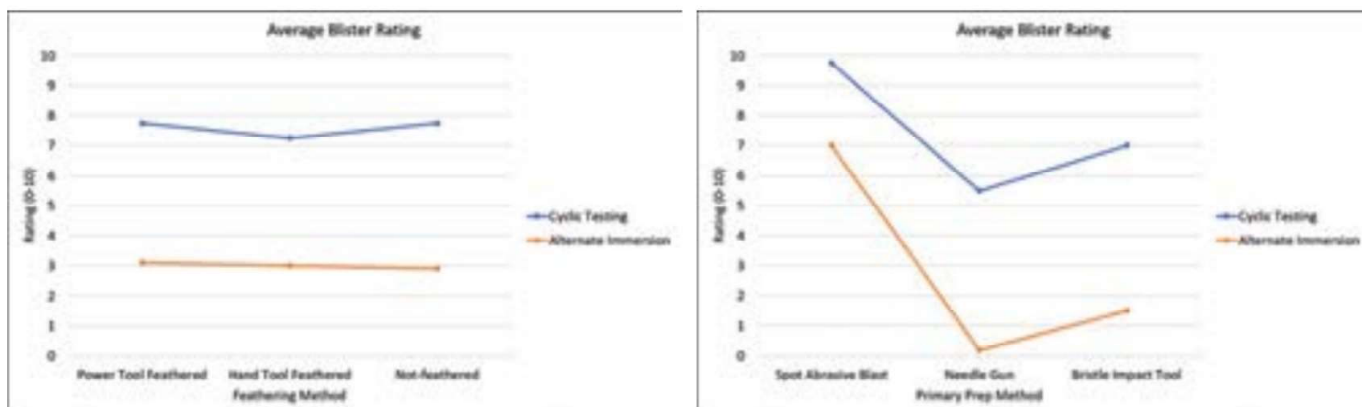


Fig. 9: Blister results from immersion and cyclic testing.

bonus issue, "Coatings Professionals: The Next Generation."



Michael Kibler is a Staff Engineer at Elzly Technology Corporation and has worked in the corrosion and protective coatings industry for two years. He is an SSPC-certified NAVSEA Coatings Inspector and a NACE-certified Shipboard Corrosion Inspector.



Cameron Miller began his career at the Naval Research Laboratory in 2007 where he is currently a Material Research Engineer at the Center for Corrosion Science and

Engineering. Over the past eight years his work has focused primarily on testing and development of Navy deck coatings with a focus on heat-resistant technologies.



Paul Slebodnick is employed by the NRL in the Washington, D.C., Center for Corrosion Science & Engineering, under the Marine Engineering Section. He currently

leads research programs in developing technologies for the United States Navy that produce maintenance reductions and reduce Ships Force workload. Slebodnick is responsible for demonstrating new technologies aboard Fleet combatants to determine readiness with in-service evaluation of the technologies prior to transitioning to the Fleet.

He also leads Engineering for Research and Development of Tank Coatings under Naval Sea Systems Command, Technical Warrant Holder for Coatings and Corrosion Control—Ships, SEA-05P in Washington, D.C.



James Martin has been with the NRL for over 18 years. He is the head of the Marine Coatings Technology and Systems section Code 6138. Martin is responsible for introducing coatings technology to the Fleet through applied research and development, testing and demonstrations. He has been active in addressing Fleet concerns from both maintenance and new construction with respect to coatings.

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# HOW TO SELECT AN AIRLESS SPRAYER: POWER SOURCES

BY ERIC RENNERFELDT, JOHN LIHWA AND JOSH CARNEY; GRACO

**E**quipment selection is critical to the success of the airless spraying of industrial coatings. The equipment must be capable of dependably delivering the selected coating type at the right application rate and under various operating conditions. If equipment is not properly suited for the job, quality issues and equipment failures can result, often leading to budget overruns, schedule delays and unhappy customers.

In selecting airless spraying equipment, many factors must be considered, including the available power source, the coating type, the application demand, the distance between the pump and the spray gun, the operating environment, portability and maintenance requirements. This article will focus on the pros and cons of various power sources when selecting airless spray equipment along with tips to maximize sprayer performance.

## POWER SOURCES

Airless pumps can be powered by air, electric or gas power sources. The selection is often determined by the availability of power sources and the operating conditions. Key considerations of each source are shown in Table 1.

## GENERAL TIPS FOR SELECTING AIRLESS SPRAYERS

### Using Gravity to Your Advantage

Inlet suction tubes can present problems when spraying high-solids, high-viscosity materials.

The pump draws material in through a 4–6-foot suction tube which can act as a straw and be extremely hard on the fluid section when trying to pull heavy material out of a bucket. A great way around that issue is to use gravity to your advantage with the use of a feed hopper. Using gravity-feeding instead of a suction hose can make the difference between being able to spray a product successfully or not. It is also difficult to fully clean suction tubes. Because a pump only draws in at 8 psi, it is difficult to fully flush all the coating from the interior walls of the suction tube, leading to a buildup over time. It is somewhat similar to an artery with plaque that builds up over time, eventually restricting the flow and adversely affecting performance. Gravity-fed hoppers are much easier to fully clean and require less solvent.

### In Some Cases, Remove Filters

When spraying heavy-bodied materials and using larger tip sizes, the pump outlet filter and gun filter can be removed. These two filters are for one purpose only: to prevent tip clogs. Filters can act as choking points to flow when dealing with heavy materials. By selectively removing the filter, you increase your capability to spray high-viscosity materials significantly.

### Use Inlet Tube Strainers

The most important filter on the sprayer is the inlet tube strainer (if you are using a suction tube). This is the one filter that keeps debris from going into the fluid section. If a rock, screw

Fig. 1: Select an airless sprayer with a large motor in order to provide more flow capacity at the required spray pressure and the ability to spray with multiple guns or larger tip sizes. Photos courtesy of Graco.

or other debris gets into the fluid section, you may have a repair on your hands costing \$1,000 or more on parts, labor and downtime. A common misconception is that the pump outlet filter will catch that debris, but by the time it gets there, it's too late. It's already been through the fluid section—the most expensive component on the machine.

## Spraying Zincs

Selecting the right setup to spray an inorganic zinc primer is probably the number-one technical issue encountered in the field. Because zinc primers are filled with zinc powder, these materials can be tricky to spray. The key is to make sure that the primer is constantly agitated or stirred using a slow-speed agitator, even while spraying. This will keep the particles in suspension.

Pumps will begin to fail when those particles settle out. If the pump will be sitting for any period of time, even five minutes, it should be depressurized. Before spraying again, material should be circulated at low pressure through the hoses and spray gun back to the container to make sure no zinc has settled in the hoses.

## Sizing Pumps

Sizing your pump for the job at hand and jobs foreseen in the near future is key. If the materials being sprayed require a pump capable of



pumping at only 3,000 psi, then a pump near that pressure rating should be chosen. More pressure is not always better. Higher-pressure pumps use smaller pump fluid section that can wear faster. Too much pressure can also cause tips to wear faster. Likewise, if a material requires 3,500 psi at the tip to atomize, then a 45:1 pump may not have enough pressure to create a good spray pattern with 300 feet of spray hose. Consult with the material supplier and equipment manufacturer to make sure the right size pump is being specified.

## Q&A WITH THE AUTHORS

### *What is the most common type of power source in the field and why?*

**John Lihwa:** The most common power source used is air (pneumatic). These sprayers can handle heavy materials such as high-solids epoxies, and in many cases can handle multiple spray guns to allow multiple painters to work at the same time off of one pump. Most industrial contractors have access to air compressors and many facilities have multiple air compressors to run blasting, painting, tools and other operations.

**Josh Carney:** Agreed. Most facilities have large air compressors on-site to run tools all over the shop—including sprayers. Air-operated sprayers can handle heavier materials than electric sprayers and are approved for use in explosive atmospheres when spraying solvent-based products. Air-operated sprayers are also generally less expensive than electric or gas equipment because they can run off of compressed air that is often already available.

### *Do you see that trend shifting?*

**Lihwa:** I do not see the trend shifting with most contractors in the field. The industry is still dominated by air-powered sprayers with other power sources used in special applications. Roofing contractors, for example, often use gas-powered sprayers for silicone applications. An air-powered sprayer for a tank or tower job will still be the pump of choice since air is already needed for blasting. For a shop or facility installing a new paint booth, I would recommend considering electric sprayers. They are more efficient and would not require new piping or a new compressor to be installed. I have seen

**Table 1: Pros and Cons of Various Power Sources.**

Power Source	Pros	Cons
Air	Convenient for contractors using air-compressor-driven blasting equipment for other purposes Safer in explosive atmospheres Capable of using large tip sizes Capable of employing multiple spray guns Easily handles long spray hoses	Noisier than other types Can be prone to icing in cold environments Requires large compressor
Electric	Quieter than other sources Reduces energy costs Less prone to icing Does not require large compressor Handles long spray hoses	Requires 240V on-site as well as an electrician Only supports smaller tip sizes (not able to use for heavier-bodied materials)
Gas	Greater portability Capable of high production rates Helpful in handling heavier, thicker coatings All-in-one power source (does not require electricity or compressor)	Not permitted in hazardous environments May need permits for fuel on jobsite



Fig. 2: If spraying in hard-to-reach areas or tight spaces, selecting a machine that is on a cart and easy to move might be of importance.

some shops shift to electric sprayers because a new booth was built and the air capacity was not available to support another sprayer.

**Carney:** Plant operations remain dominated by air-operated sprayers. There is a shift in spraying heavy coatings in outdoor applications such as silicone roofing. Portability may be another factor to consider. Many contractors do not want to tow a large compressor to run their air sprayer. They would prefer to have a sprayer with a gas engine that is an all-in-one power pack—very portable.

### *If all three types were available on a jobsite, which would you recommend to a customer and why?*

**Lihwa:** It depends on the job at hand, but for most jobs I would recommend an air-operated pump. As stated, for roofing applications, I would recommend a gas sprayer. For painters spraying drywall in a large building, where they do not want to bring a compressor inside, I would recommend an electric sprayer. This pump type is quiet because there is no compressor running. An electric sprayer is also a good choice in plants when air supply is an issue.

**Carney:** It definitely depends on the jobsite. For in-plant operations, an air-operated sprayer is recommended as long as compressed air is available. Without a compressor available or when spraying relatively low-viscosity material, an electric-powered sprayer may be the best choice.

## SUMMARY

Power sources represent one of the key considerations in selecting airless sprayers. In addition to power sources, remember other factors when selecting an airless sprayer such as coating type, application demand,



## POWER SOURCES FOR AIRLESS SPRAYERS



Fig. 3: The key to airless spraying is providing enough fluid pressure at the gun to atomize the material into a pattern that provides consistent coverage.

the distance between the pump and the spray gun, the operating environment, portability and maintenance requirements. Following are some general items to consider when selecting equipment:

- Make sure you have sufficient fluid pressure at the gun to provide consistent coverage;
- A dependable, high-quality sprayer may have higher initial cost, but successful

completion of more jobs on time is possible if you consider all the right factors;

- Durable sprayers can perform in a variety of environmental conditions and make the difference between a good day's work and a day of frustrating delays; and
- Work with a qualified technical representative to make the right choice.

### ABOUT THE AUTHORS



Eric Rennerfeldt, product manager of Protective Coatings Equipment, has been with Graco for more than 20 years. He has experience with various fluid-handling

systems with an emphasis on plural-component spray equipment for protective coatings and vapor-abrasive-blast equipment for surface preparation.



John Lihwa is an Area Manager for High-Performance Coatings and Foam Equipment, in the Applied Fluid Technologies Division of Graco. Lihwa has

worked in engineering, product management and sales roles with Graco since 2008. In 2014 and 2015, he helped bring a Graco line of mortar equipment to market.



Josh Carney is the Southwest High-Performance Coating and Foam Account Manager for Graco AFTD. He has over 12 years of equipment application experience including roofing,

striping, texture, fine finish, high-pressure airless, plural component, foam/polyurea, and blasting. **JPCL**

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# 2019 Annual Equipment Buying Guide

Courtesy of Pamela Simmons.

**T**he JPCL Equipment Buying Guide lists equipment and related supplies for protective and marine coating work from almost 350 manufacturers, distributors and rental companies, published annually to assist our readers in the identification of equipment and supplies for protective and marine coating operations.

On p. 28, you will find the Table of Contents, where generic products are listed under nine categories: Access; Application; Climate Control; Environmental Protection Equipment; Inspection; Laboratory Testing; Safety; Software; and Surface Preparation.

On p. 29, you will find the Index to the Buying Guide, where products are listed alphabetically in a single list. Individual company profiles with contact information can be accessed on p. 98.

In the Guide itself, which begins on p. 31, 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 April 2019 to companies known to JPCL. The print edition of the JPCL Guide includes the companies that completed the survey by the deadline for the June 2019 issue. This Guide is also available at [www.paintsquare.com/bg](http://www.paintsquare.com/bg), the online home of JPCL, where information is updatable throughout the year. To participate in the online edition of the Equipment Buying Guide between print editions, please contact Nichole Altieri, Business Administration Manager, JPCL, at [naltieri@paintsquare.com](mailto:naltieri@paintsquare.com).

Products listed in the JPCL Equipment Buying Guide are in no way endorsed by JPCL, PaintSquare or Technology Publishing Company.

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**BOSUN'S CHAIRS, WORK CAGES**

CESCO - Aqua Miser  
GBS Scaffolding and Services Corp.  
Lisbon Hoist, Inc.  
P&L Metalcrafts, LLC  
Safway Group Holding LLC  
Sky Climber, LLC  
Spider By BrandSafway  
The Warehouse Rentals and Supplies

**BUILT-UP AND PORTABLE SCAFFOLDS**

Blast/Coat Systems, Inc.  
GBS Scaffolding and Services Corp.  
Jadalc  
Lesoon Equipment Pte. Ltd.  
P&L Metalcrafts, LLC  
Safespan Platform Systems, Inc.  
Safway Group Holding LLC  
Spider By BrandSafway

**CABLE, RIGGING**

Corrosion Specialties Inc.  
Eagle Industries  
Envirosafe Stripping Inc.  
GBS Scaffolding and Services Corp.  
Hanes Supply Inc  
Lisbon Hoist, Inc.  
P&L Metalcrafts, LLC  
RBW Enterprises, Inc.  
Safespan Platform Systems, Inc.  
Safway Group Holding LLC  
Spider By BrandSafway

**LADDERS**

Absolute Equipment  
AirTech Spray Systems  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Envirosafe Stripping Inc.  
Hanes Supply Inc  
Michigan Ladder Co.  
P&L Metalcrafts, LLC  
Surface Prep Supply

**LIFTS**

ABLE Equipment Rental  
Absolute Equipment  
ARS Recycling Systems, LLC  
BlastOne International  
Central Texas Equipment  
Envirosafe Stripping Inc.  
Hanes Supply Inc  
Innovative Reach  
Lisbon Hoist, Inc.  
LPI Incorporated  
Pinnacle Central Co.  
Safway Group Holding LLC

**PLATFORMS**

ARS Recycling Systems, LLC  
GBS Scaffolding and Services Corp.  
Hanes Supply Inc  
ICM - International Climbing Machines  
Innovative Reach  
Lisbon Hoist, Inc.  
LPI Incorporated  
LS Industries, Inc.  
P&L Metalcrafts, LLC  
Safespan Platform Systems, Inc.  
Safway Group Holding LLC

Sky Climber, LLC  
Spider By BrandSafway

**SUSPENDED SCAFFOLDS**

GBS Scaffolding and Services Corp.  
Lisbon Hoist, Inc.  
Safespan Platform Systems, Inc.  
Safway Group Holding LLC  
Sky Climber, LLC  
Spider By BrandSafway  
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 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 BlueGreen Technologies LLC  
 Bolair Fluid Handling Systems  
 Bullard  
 Canfield & Joseph Inc.  
 Central Texas Equipment  
 CESCO - Aqua Miser  
 Doosan Portable Power  
 DryAIR by TDM  
 ECS North America, LLC  
 EnDiSys  
 EnviroSafe Stripping Inc.  
 ESCA Blast  
 Hanes Supply Inc  
 HoverTrowel, Inc.  
 IBIX North America, Surface Tech LLC  
 IDS Blast  
 Jadalco  
 Jenny Products, Inc.  
 Marco  
 Norton Sandblasting Equipment  
 Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
 The Paint Project, Inc.

Pinnacle Central Co.  
 Southern Equipment Distribution, LLC  
 Sullivan-Palatek, Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 Trask-Decrow Machinery, Inc.  
 United Western Denver  
 Victory Air & Equipment  
 The Warehouse Rentals and Supplies  
 WorkSite Lighting, LLC

**BRUSHES**

AirTech Spray Systems  
 APE Companies  
 Arkco (Thailand) Co., Ltd.  
 BlastOne Australia  
 BlastOne International  
 Bon Tool Co  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 EnviroSafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Hanes Supply Inc  
 Hyde Group  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
 Magnolia Brush  
 Marco  
 MES Rentals  
 National Concrete Accessories  
 Paint Brush Corporation  
 The Paint Project, Inc.

Shur-Line  
 Spray Pump Services, LLC  
 Sulzer Mixpac  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Victory Air & Equipment  
 The Warehouse Rentals and Supplies  
 The Wooster Brush Company  
 Zibra

**DOOR PAINTING SYSTEMS**

Mr. LongArm, Inc.



Speed Painting Inc.

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QUICK VIEW - BidID: 5295333

**Project: Bridge Cleaning, Painting and Related Work Br. No's H-21-47 H-21-49 (Steel) Interstate 91 (NB SB) over Lower Westfield Road and Route 202 (Cherry Street)**

BidID: 5295333  
 Project Number: 608251  
 Owner: Massachusetts Department of Transportation  
 Date Posted: 5/8/2019  
 Cost Estimate: \$1,710,000  
 Stage: Bid  
 Type of Contract: Painting  
 Location: Holyoke, MA  
 Submittal Date: 7/16/2019  
 Project Size: (2) bridges

**EDITOR NOTES**

This project involves cleaning and coating (2) existing bridges over Lower Westfield Road and Route 202.

The project includes cleaning (full removal), surface preparation, and coating of structural steel superstructures on both bridges. The project includes a lump sum item for cleaning (full removal) and recoating existing structural steel surfaces. The steel will be abrasive blast-cleaned to SSPC-SP 10 (near white) and recoated with a 3-coat organic zinc-epoxy-urethane system selected from NEPCOAT List B; this system is subject to change according to project requirements. The existing coatings are presumed to contain lead; containment according to SSPC-Guide 6 and waste disposal according to Guide 7 are required. Approved coating manufacturers are Carboline, Ameron (PPG), International Paint and Sherwin-Williams.

The project will also include surface preparation and coating of bearings, intermediate diaphragms, and other connecting plates.

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Smith Surface-Prep Solutions  
Specialty Products, Inc. (SPI)  
Spray Pump Services, LLC  
Surface Prep Supply  
T Tex Industries LP  
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### EXTENSION POLES

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Bittner's Spray Equipment Co.  
Corrosion Specialties Inc.  
Glenn Saren & Assoc. Inc.  
Hyde Group  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Magnolia Brush  
Marco  
Mr. LongArm, Inc.



National Concrete Accessories  
Shur-Line  
Spin Import Export  
Spray Pump Services, LLC  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
Titan Tool  
Victory Air & Equipment  
VR Coatings Pvt. Ltd.  
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The Wooster Brush Company

### FLOOR COATING TOOLS (SQUEEGES, GAUGE RAKES, LEVELERS, EPOXY-TERRAZO ROLLERS)

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Blasting Experts  
Bon Tool Co  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
EnDiSys  
Floorex Products  
Glenn Saren & Assoc. Inc.  
Hanes Supply Inc  
HoverTrowel, Inc.  
Jadalc  
Jon-Don  
Marco  
MES Rentals  
National Concrete Accessories

Quikspray, Inc.



Southern Industrial Supply, Inc.  
Surface Prep Supply  
T Tex Industries LP  
TCR Blast Abrasives  
The Warehouse Rentals and Supplies  
The Wooster Brush Company

### GENERATORS, PORTABLE

ABLE Equipment Rental  
Absolute Equipment  
AirTech Spray Systems  
BlueGreen Technologies LLC  
Canfield & Joseph Inc.  
Central Texas Equipment  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
DeHumidification Technologies, LP  
Doosan Portable Power  
DryAIR by TDM  
ECS North America, LLC  
EnDiSys  
Floorex Products  
GAL Power Systems Toronto  
Hanes Supply Inc.  
Jadalc  
Jon-Don  
Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
The Paint Project, Inc.  
Pinnacle Central Co.  
Polygon US Corporation  
Pro-Tect Services, Inc.  
Surface Prep Supply  
The Warehouse Rentals and Supplies  
WorkSite Lighting, LLC

### HEATERS FOR SPRAY PUMPS AND HOSES

Abrasives Inc.  
AirTech Spray Systems  
Arkco (Thailand) Co., Ltd.  
Bittner's Spray Equipment Co.  
BlastOne Australia  
BlastOne International  
Bolair Fluid Handling Systems  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
EnDiSys  
Envirosafe Stripping Inc.

Graco Inc.  
Hanes Supply Inc.  
Jadalc  
Lesoon Equipment Pte. Ltd.  
Marco  
Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
The Paint Project, Inc.  
Specialty Products, Inc. (SPI)  
Spin Import Export  
Spray Pump Services, LLC  
Surface Prep Supply  
T Tex Industries LP  
Uni-Royal Pack Co., Ltd.  
VR Coatings (North America) Ltd.  
VR Coatings Pvt. Ltd.  
The Warehouse Rentals and Supplies  
WIWA LLC

### MASKING TAPE AND RELATED MATERIALS

AirTech Spray Systems  
APE Companies  
BlastOne International  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Envirosafe Stripping Inc.  
Glenn Saren & Assoc. Inc.  
Hanes Supply Inc  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
National Concrete Accessories  
The Paint Project, Inc.  
Paul N. Gardner Co., Inc.  
Spray Pump Services, LLC  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
TCR Blast Abrasives  
Trimaco Inc.  
Victory Air & Equipment  
The Warehouse Rentals and Supplies

### MITTS

AirTech Spray Systems  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Glenn Saren & Assoc. Inc.  
Lesoon Equipment Pte. Ltd.  
National Concrete Accessories  
Spray Pump Services, LLC  
Surface Prep Supply  
T Tex Industries LP  
Trimaco Inc.  
Victory Air & Equipment  
The Warehouse Rentals and Supplies



**MIXERS AND AGITATORS**

AirTech Spray Systems  
 Albion Engineering Company  
 Arkco (Thailand) Co., Ltd.  
 Bittner's Spray Equipment Co.  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
 EnDiSys  
 Envirosafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 HERO Products Group a division of I.C.T.C. Holdings Corp.  
 HoverTrowel, Inc.  
 Hyde Group  
 IDS Blast  
 INDCO, Inc.  
 Jadalac  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
 Paul N. Gardner Co., Inc.  
 The Paint Project, Inc.  
 Quikspray, Inc.



Specialty Products, Inc. (SPI)  
 Spin Import Export  
 Spray Pump Services, LLC  
 Sulzer Mixpac

Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
 VR Coatings (North America) Ltd.  
 VR Coatings Pvt. Ltd.  
 The Warehouse Rentals and Supplies  
 WIWA LLC

**PAINT POTS FOR SPRAY PAINTING**

Abrasives Inc.  
 AirTech Spray Systems  
 APE Companies  
 Arkco (Thailand) Co., Ltd.  
 Bittner's Spray Equipment Co.  
 Blast/Coat Systems, Inc.  
 BlastOne Australia  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 DUX Technologies, Inc.  
 EnDiSys  
 Envirosafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Hanes Supply Inc  
 IDS Blast  
 Jadalac  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 The Paint Project, Inc.  
 Pinnacle Central Co.  
 Spin Import Export  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Titan Tool

Victory Air & Equipment  
 VR Coatings (North America) Ltd.  
 VR Coatings Pvt. Ltd.  
 The Warehouse Rentals and Supplies

**PIPE, INTERNALS, APPLICATION EQUIPMENT**

Abrasive & Equipment of Arizona, Inc.  
 Airblast B.V.  
 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 BlastOne Australia  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Clemco Industries Corp.  
 Corrosion Specialties Inc.  
 EnDiSys  
 IBIX North America, Surface Tech. LLC  
 Jadalac  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 N.T. Ruddock Co.  
 Paul N. Gardner Co., Inc.  
 Pinnacle Central Co.  
 Remote Orbital Installations, LLC  
 Specialty Products, Inc. (SPI)  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 T Tex Industries LP  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
 VR Coatings (North America) Ltd.  
 VR Coatings Pvt. Ltd.  
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**PUMPS FOR SPRAY PAINTING**

Abrasives Inc.  
 AirTech Spray Systems  
 APE Companies  
 Arkco (Thailand) Co., Ltd.  
 Bittner's Spray Equipment Co.  
 Blasting Experts  
 BlastOne Australia

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BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 Dispensing Technology Corporation  
 EnDiSys  
 Envirosafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 IDS Blast  
 Jadalc  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 Oak Ridge Foam and Coating systems/Franklin Consulting Services, LLC  
 The Paint Project, Inc.  
 Quikspray, Inc.  
 Spin Import Export  
 Spray Pump Services, LLC  
 Sulzer Mixpac  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
 VR Coatings (North America) Ltd.  
 VR Coatings Pvt. Ltd.  
 The Warehouse Rentals and Supplies  
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### ROBOTIC SPRAY SYSTEMS

Airblast B.V.  
 AirTech Spray Systems  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Corrosion Specialties Inc.  
 EnDiSys  
 ICM - International Climbing Machines  
 Jadalc  
 The Paint Project, Inc.  
 Remote Orbital Installations, LLC  
 Specialty Products, Inc. (SPI)  
 Spin Import Export  
 T Tex Industries LP  
 Uni-Royal Pack Co., Ltd.  
 VR Coatings Pvt. Ltd.  
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### ROLLERS, HAND-POWERED

AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Blasting Experts  
 BlastOne International  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 Envirosafe Stripping Inc.

Glenn Saren & Assoc. Inc.  
 Hyde Group  
 Jadalc  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 Mr. LongArm, Inc.



National Concrete Accessories  
 The Paint Project, Inc.  
 Shur-Line  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
 The Warehouse Rentals and Supplies  
 The Wooster Brush Company

### ROLLERS, PIPE

AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Corrosion Specialties Inc.  
 Glenn Saren & Assoc. Inc.  
 Jon-Don  
 Marco  
 MES Rentals  
 Surface Prep Supply  
 TCR Blast Abrasives

### ROLLERS, PRESSURIZED

AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Bittner's Spray Equipment Co.  
 Blasting Experts  
 BlastOne International  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 EnDiSys  
 Glenn Saren & Assoc. Inc.  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 The Paint Project, Inc.  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 T Tex Industries LP  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

The Warehouse Rentals and Supplies

### SPIKED ROLLERS, SHOES

Arkco (Thailand) Co., Ltd.  
 Bon Tool Co  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 Floorex Products  
 Glenn Saren & Assoc. Inc.  
 HoverTrowel, Inc.  
 Jon-Don  
 Marco  
 MES Rentals  
 Surface Prep Supply  
 T Tex Industries LP  
 TCR Blast Abrasives  
 The Wooster Brush Company

### SPRAY BOOTHS

Airblast B.V.  
 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 BlastOne Australia  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph, Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 EnDiSys  
 Envirosafe Stripping Inc.  
 IDS Blast  
 Lesoon Equipment Pte. Ltd.  
 LS Industries, Inc.  
 Marco  
 Norton Sandblasting Equipment  
 Paul N. Gardner Co., Inc.  
 The Paint Project, Inc.  
 Southern Equipment Distribution, LLC  
 Specialty Products, Inc. (SPI)  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 Victory Air & Equipment  
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### SPRAY GUNS

Abrasives Inc.  
 AirTech Spray Systems  
 Albion Engineering Company  
 APE Companies  
 Arkco (Thailand) Co., Ltd.  
 Bittner's Spray Equipment Co.  
 Blast/Coat Systems, Inc.  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 Dispensing Technology Corporation  
 EnDiSys  
 Envirosafe Stripping Inc.



Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 IBIX North America, Surface Tech. LLC  
 IDS Blast  
 Jadalco  
 Lesoon Equipment Pte. Ltd.  
 LS Industries, Inc.  
 Marco  
 MES Rentals  
 Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
 The Paint Project, Inc.  
 Paul N. Gardner Co., Inc.  
 Quikspray, Inc.  
 Remote Orbital Installations, LLC  
 Specialty Products, Inc. (SPI)  
 Spin Import Export  
 Spray Pump Services, LLC  
 Sulzer Mixpac  
 Surface Prep Supply  
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 TCR Blast Abrasives  
 Titan Tool  
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 Victory Air & Equipment  
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 APE Companies  
 Arkco (Thailand) Co., Ltd.  
 Bittner's Spray Equipment Co.  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 Blastlink USA  
 BlastOne Australia  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Bon Tool Co  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Cincinnati Color Company  
 Corrosion Specialties Inc.  
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 DUX Technologies, Inc.  
 EnDiSys  
 Envirosafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 Hanes Supply Inc  
 IDS Blast  
 Jadalco  
 Jollyflex USA  
 Lesoon Equipment Pte. Ltd.  
 LS Industries, Inc.  
 Marco  
 MES Rentals

**Oak Ridge Foam and Coating Systems/Franklin**

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 The Paint Project, Inc.  
 Quikspray, Inc.  
 Specialty Products, Inc. (SPI)  
 Spin Import Export  
 Spray Pump Services, LLC  
 Sulzer Mixpac  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
 VR Coatings (North America) Ltd.  
 VR Coatings Pvt. Ltd.  
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 DUX Technologies, Inc.  
 EnDiSys  
 Envirosafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 Hanes Supply Inc  
 Hyde Group  
 IDS Blast  
 Jadalc  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 Nordson EFD  
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 Quikspray, Inc.  
 Specialty Products, Inc. (SPI)  
 Spin Import Export  
 Spray Pump Services, LLC  
 Sulzer Mixpac  
 Super Titan Company  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Titan Tool  
 TMS Metalizing Systems, Ltd.  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
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 Blastlink USA  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Cincinnati Color Company  
 Corrosion Specialties Inc.  
 DUX Technologies, Inc.  
 EnDiSys  
 Envirosafe Stripping Inc.  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 Hanes Supply Inc  
 IBIX North America, Surface Tech. LLC  
 ICM - International Climbing Machines  
 IDS Blast  
 Jadalc  
 Lesoon Equipment Pte. Ltd.

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 Nordson EFD  
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 Spin Import Export  
 Spray Pump Services, LLC  
 Sulzer Mixpac  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
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 Bittner's Spray Equipment Co.  
 Blasting Experts  
 BlastOne International  
 Bolair Fluid Handling Systems  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Cincinnati Color Company  
 Corrosion Specialties Inc.  
 EnDiSys  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 IDS Blast  
 Jadalc  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
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 Specialty Products, Inc. (SPI)  
 Spin Import Export  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
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### SPRAY SYSTEMS, AIRLESS

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 Bittner's Spray Equipment Co.  
 Blastlink USA





BlastOne Australia  
BlastOne International  
Bolair Fluid Handling Systems  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Cincinnati Color Company  
Corrosion Specialties Inc.  
Dispensing Technology Corporation  
EnDiSys  
Glenn Saren & Assoc. Inc.  
Graco Inc.  
Hyde Group  
ICM - International Climbing Machines  
IDS Blast  
Lesoon Equipment Pte. Ltd.  
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Spin Import Export  
Spray Pump Services, LLC  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
TCR Blast Abrasives  
Titan Tool  
Uni-Royal Pack Co., Ltd.  
Victory Air & Equipment  
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#### SPRAY SYSTEMS, ELECTROSTATIC

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Bittner's Spray Equipment Co.  
BlastOne International  
Bolair Fluid Handling Systems  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
EnDiSys  
Glenn Saren & Assoc. Inc.  
Graco Inc.  
IDS Blast  
Jadalc  
Lesoon Equipment Pte. Ltd.  
Marco  
The Paint Project, Inc.  
Specialty Products, Inc. (SPI)  
Spin Import Export  
Spray Pump Services, LLC  
Surface Prep Supply  
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Titan Tool  
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BlastOne International  
Bolair Fluid Handling Systems  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
DUX Technologies, Inc.  
EnDiSys  
Glenn Saren & Assoc. Inc.  
Graco Inc.  
IDS Blast  
Jadalc  
Lesoon Equipment Pte. Ltd.  
Marco  
The Paint Project, Inc.  
Quikspray, Inc.



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Spin Import Export  
Spray Pump Services, LLC  
Surface Prep Supply  
T Tex Industries LP  
Titan Tool  
Uni-Royal Pack Co., Ltd.  
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 Dispensing Technology Corporation  
 EnDiSys  
 Glenn Saren & Assoc. Inc.  
 Graco Inc.  
 IDS Blast  
 Jadalc  
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 Titan Tool  
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 CESCO - Aqua Miser  
 Cincinnati Color Company  
 Corrosion Specialties Inc.  
 Envirosafe Stripping Inc.  
 Lesoon Equipment Pte. Ltd.  
 Marco

MES Rentals  
 The Paint Project, Inc.  
 Paul N. Gardner Co., Inc.  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 Trimaco Inc.  
 Uni-Royal Pack Co., Ltd.  
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### SUNDRIES

Albion Engineering Company  
 APE Companies  
 CESCO - Aqua Miser  
 Cincinnati Color Company  
 Corrosion Specialties Inc.  
 Full Circle International Inc.  
 Glenn Saren & Assoc. Inc.  
 Hyde Group  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
 Magnolia Brush  
 Marco  
 MES Rentals



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 Spray Pump Services, LLC  
 Sunnyside Corporation/Back To Nature Products  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Tower Sealants / M-D Building  
 Trimaco Inc.  
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### THERMAL SPRAY EQUIPMENT

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 BlastOne International  
 CESCO - Aqua Miser  
 EnDiSys  
 Glenn Saren & Assoc. Inc.  
 IBIX North America, Surface Tech. LLC  
 Jadalc  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 Surface Prep Supply  
 Thermion  
 Titan Tool  
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### TRAFFIC LINE STRIPERS

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 Absolute Equipment  
 AirTech Spray Systems  
 APE Companies  
 Bittner's Spray Equipment Co.  
 BlueGreen Technologies LLC  
 Bolair Fluid Handling Systems  
 Cincinnati Color Company  
 Corrosion Specialties Inc.  
 Dispensing Technology Corporation  
 EnDiSys  
 Glenn Saren & Assoc. Inc.  
 Jadalc  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 The Paint Project, Inc.  
 Spray Pump Services, LLC  
 Surface Prep Supply  
 T Tex Industries LP  
 Titan Tool  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment  
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### TROWELS, HAND

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 Hyde Group  
 Jon-Don  
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Canfield & Joseph, Inc.  
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Corrosion Specialties Inc.  
DeHumidification Technologies, LP  
Dehumidifiers, Sales and Consulting, Inc.  
DryAIR by TDM  
ECS North America, LLC  
GAL Power Systems Toronto  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
Munters Corporation  
Pinnacle Central Co.  
Polygon US Corporation  
Rapid Prep, LLC  
Surface Prep Supply  
United Western Denver

### DEHUMIDIFIERS

Absolute Equipment  
Airblast B.V.  
APE Companies  
ARID-DRY by Controlled Dehumidification  
Arkco (Thailand) Co., Ltd.  
Axxiom Manufacturing

BlastOne Australia  
BlastOne International  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion Specialties Inc.  
DeHumidification Technologies, LP  
Dehumidifiers, Sales and Consulting, Inc.  
DryAIR by TDM  
ECS North America, LLC  
GAL Power Systems Toronto  
Jon-Don  
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Marco  
MES Rentals  
Munters Corporation  
Phoenix Equipment  
Pinnacle Central Co.  
Polygon US Corporation  
Pro-Tect Services, Inc.  
Rapid Prep, LLC  
Surface Prep Supply  
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Uni-Royal Pack Co., Ltd.  
Victory Air & Equipment

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EnDiSys  
Floorex Products  
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Jon-Don  
The Paint Project, Inc.  
Pinnacle Central Co.  
Polygon US Corporation  
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Surface Prep Supply  
Trask-Decrow Machinery, Inc.  
WorkSite Lighting, LLC

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BlastOne International  
Central Texas Equipment  
CESCO - Aqua Miser  
DeHumidification Technologies, LP  
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EnDiSys  
Envirosafe Stripping Inc.  
GAL Power Systems Toronto  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
Munters Corporation  
The Paint Project, Inc.  
Phoenix Equipment  
Pinnacle Central Co.  
Polygon US Corporation  
Rapid Prep, LLC  
SJS Equipment LLC  
Surface Prep Supply  
United Western Denver

### LIGHTING

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Bell & MacKenzie Company Ltd.  
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 Surface Prep Supply  
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 Corrosion Specialties Inc.  
 Dawson-Macdonald Company  
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 ARS Recycling Systems, LLC  
 BlastOne Australia  
 BlastOne International  
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 Canfield & Joseph, Inc.  
 CESCO - Aqua Miser  
 Clean&Safe  
 Clothes Cleaning Systems  
 Corrosion Specialties Inc.  
 Detroit Tarp, Inc.  
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 Victory Air & Equipment  
 Zip Wall Dust Barrier System

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 BlastOne International

Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 Detroit Tarp, Inc.  
 Eagle Industries  
 Envirosafe Stripping Inc.  
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T Tex Industries LP  
Total Enclosure Sail System, Inc.  
Trimaco Inc.  
TST Sweden, AB  
Victory Air & Equipment  
Zip Wall Dust Barrier System

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T Tex Industries LP

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Arkco (Thailand) Co., Ltd.  
ARS Recycling Systems, LLC  
Blast/Coat Systems, Inc.  
Blasting Experts  
BlastOne International  
Canfield & Joseph Inc.  
Central Texas Equipment  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
CS Unitec, Inc.  
Dawson-Macdonald Company  
DeHumidification Technologies, LP  
Desco Mfg. Co., Inc.  
Dustless Technologies  
Eagle Industries  
ECS North America, LLC  
Envirosafe Stripping Inc.  
Floorex Products  
General Equipment Company  
HoverTrowel, Inc.

IDS Blast  
Jadalc  
Jon-Don  
Julbert, Inc.  
LS Industries, Inc.  
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Blast/Coat Systems, Inc.  
Blasting Experts  
BlastOne Australia  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Clothes Cleaning Systems  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
DeHumidification Technologies, LP  
Eagle Industries  
ECS North America, LLC  
**EnTech Industries**  
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ESCA Blast  
Floorex Products  
Friess Equipment, Inc.  
Goff, Inc.  
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Pirate Brand  
Pro-Tect Services, Inc.  
Rapid Prep, LLC  
RBW Enterprises, Inc.  
Robovent  
SAFE Systems, Inc.  
Smith Surface-Prep Solutions  
Southern Equipment Distribution, LLC  
Surface Prep Supply  
T Tex Industries LP  
Trelawny Surface Preparation Technology  
United Western Denver  
Victory Air & Equipment

#### SOLVENT RECOVERY SYSTEMS

AirTech Spray Systems  
BlastOne International  
CBG Biotech  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Diedrich Technologies Inc.  
EnDiSys  
Envirosafe Stripping Inc.  
Jon-Don  
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Persyst Enterprises, Inc.  
Pinnacle Central Co.  
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Spray Pump Services, LLC  
Surface Prep Supply  
T Tex Industries LP  
Uni-Ram Corporation  
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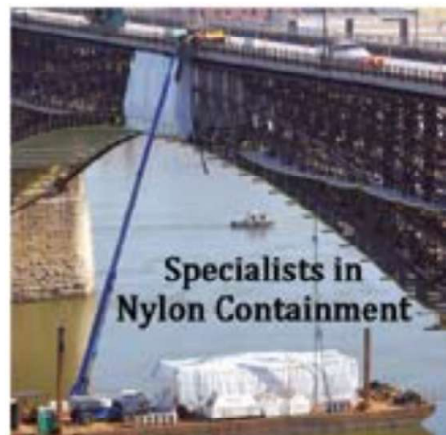
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DeFelsko Corporation  
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Elcometer, Inc.



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#### GLOSS METERS

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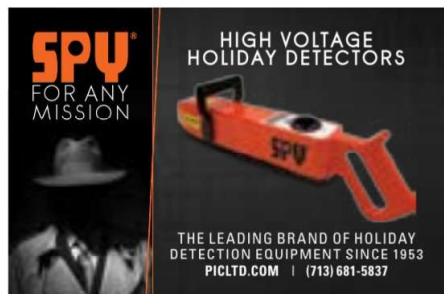




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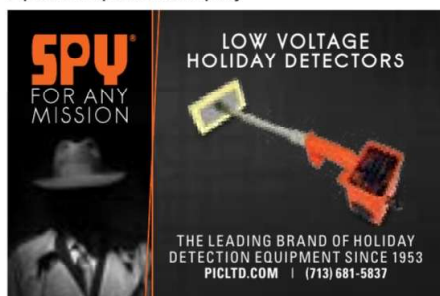
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Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
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NZ Corrosion Services Ltd.  
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Stone Tucker Instruments Inc.  
Surface Prep Supply  
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TCR Blast Abrasives  
Thermion  
TQC Sheen  
TQC Sheen USA  
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DeFelsko Corporation  
Elcometer (Asia) Pte Ltd  
Elcometer, Inc.  
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Lesoon Equipment Pte. Ltd.  
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Naval & Industrial Solutions  
NZ Corrosion Services Ltd.  
Paul N. Gardner Co., Inc.

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 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

#### THICKNESS GAGES, DRY FILM, DESTRUCTIVE

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 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 BlastOne International  
 BYK-Gardner USA  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
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 Corrosion Specialties Inc.  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



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 Fischer Instruments S.A.  
 Fischer Technology, Inc.  
 Floorex Products  
 KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 Naval & Industrial Solutions  
 NZ Corrosion Services Ltd.  
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 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

#### THICKNESS GAGES, DRY FILM, EDDY CURRENT

Abrasives Inc.  
 Airblast B.V.  
 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 BlastOne International  
 BYK-Gardner USA  
 Canfield & Joseph, Inc.  
 CESCO - Aqua Miser  
 Corrosion & Protective Coatings S.A.

DeFelsko Corporation  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



ElektroPhysik Dr. Steingroever GmbH & Co. KG  
 Fischer Instruments S.A.  
 Fischer Technology, Inc.



ICM - International Climbing Machines  
 KTA-Tator, Inc.



Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 MES Rentals  
 Naval & Industrial Solutions  
 NZ Corrosion Services Ltd.  
 Paul N. Gardner Co., Inc.  
 SEMicro Div., M.E. Taylor Engr. Inc.  
 Spin Import Export  
 Spray Pump Services, LLC  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TIME Group Inc.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

#### THICKNESS GAGES, DRY FILM, MAGNETIC

Abrasives Inc.  
 Airblast B.V.  
 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 Canfield & Joseph Inc.  
 Corrosion & Protective Coatings S.A.  
 Corrosion Specialties Inc.

DeFelsko Corporation



Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



ElektroPhysik Dr. Steingroever GmbH & Co. KG  
 Fischer Instruments S.A.  
 Fischer Technology, Inc.



KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 MES Rentals  
 Naval & Industrial Solutions  
 NZ Corrosion Services Ltd.  
 Paul N. Gardner Co., Inc.  
 SEMicro Div., M.E. Taylor Engr. Inc.  
 Spin Import Export  
 Spray Pump Services, LLC  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Thermion  
 TIME Group Inc.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

#### THICKNESS GAGES, WET FILM

Airblast B.V.  
 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 BYK-Gardner USA  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion & Protective Coatings S.A.  
 Corrosion Specialties Inc.  
 DeFelsko Corporation  
 Elcometer (Asia) Pte Ltd



## EQUIPMENT BUYING GUIDE / Inspection

Elcometer, Inc



ElektroPhysik Dr. Steingroever GmbH & Co. KG  
 Envirosafe Stripping Inc.  
 Fischer Instruments S.A.  
 Fischer Technology, Inc.  
 Floorex Products  
 KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 MES Rentals  
 Naval & Industrial Solutions  
 NZ Corrosion Services Ltd.  
 The Paint Project, Inc.  
 Paul N. Gardner Co., Inc.



Spray Pump Services, LLC  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TCR Blast Abrasives  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**THICKNESS TESTERS, ULTRASONIC**

Airblast B.V.  
 Arkco (Thailand) Co., Ltd.  
 Blasting Experts  
 BlastOne International  
 Canfield & Joseph Inc.  
 Corrosion & Protective Coatings S.A.  
 Cygnus Instruments, Inc.  
 DeFelsko Corporation  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



ElektroPhysik Dr. Steingroever GmbH & Co. KG  
 Fischer Instruments S.A.  
 Fischer Technology, Inc.



Floorex Products  
 ICM - International Climbing Machines  
 James Instruments Inc.  
 KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 Naval & Industrial Solutions  
 Norton Sandblasting Equipment  
 NZ Corrosion Services Ltd.  
 Paul N. Gardner Co., Inc.  
 SEMicro Div., M.E. Taylor Engr. Inc.  
 Spin Import Export  
 Spray Pump Services, LLC  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TIME Group Inc.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**VISCOSITY CUPS**

Arkco (Thailand) Co., Ltd.  
 BlastOne International  
 BYK-Gardner USA  
 CESCO - Aqua Miser  
 Corrosion & Protective Coatings S.A.  
 Corrosion Specialties Inc.  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 Naval & Industrial Solutions  
 NZ Corrosion Services Ltd.  
 The Paint Project, Inc.

Paul N. Gardner Co., Inc.



Spin Import Export  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**VISUAL STANDARDS**

ACT Test Panels LLC  
 Airblast B.V.  
 Arkco (Thailand) Co., Ltd.  
 Blasting Experts  
 BlastOne International  
 BYK-Gardner USA  
 Corrosion & Protective Coatings S.A.  
 Corrosion Specialties Inc.  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



Flashlights Unlimited  
 Floorex Products  
 ICM - International Climbing Machines  
 IDS Blast  
 KTA-Tator, Inc.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 N.T. Ruddock Co.  
 Naval & Industrial Solutions  
 Norton Sandblasting Equipment  
 NZ Corrosion Services Ltd.  
 Paul N. Gardner Co., Inc.  
 Spin Import Export  
 Spray Pump Services, LLC  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TCR Blast Abrasives  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**ABRASION RESISTANCE TESTERS**

Arkco (Thailand) Co., Ltd.  
 BYK-Gardner USA  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.



Marco  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 Stone Tucker Instruments Inc.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**ADHESION TESTERS (LABORATORY)**

Arkco (Thailand) Co., Ltd.  
 BYK-Gardner USA  
 Corrosion & Protective Coatings S.A.  
 DeFelsko Corporation  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 SEMicro Div., M.E. Taylor Engr. Inc.  
 Stone Tucker Instruments Inc.  
 T Tex Industries LP  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**ATLAS TEST CELL (OR OTHER THAT MEETS ASTM C868)**

Naval & Industrial Solutions

**COLOR QC**

Arkco (Thailand) Co., Ltd.  
 BYK-Gardner USA  
 Elcometer, Inc.  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 Stone Tucker Instruments Inc.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.

**CORROSION MEASUREMENT INSTRUMENTS**

Arkco (Thailand) Co., Ltd.  
 Corrosion & Protective Coatings S.A.  
 DeFelsko Corporation  
 Elcometer, Inc.  
 Fischer Technology, Inc.



James Instruments Inc.  
 KTA-Tator, Inc.  
 Marco  
 Metal Samples  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 Q-Lab Corporation  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 The Singleton Corporation  
 TMS Metalizing Systems, Ltd.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.

**ELECTROCHEMICAL IMPEDANCE TESTERS**

Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.

**GLOSS METERS**

Arkco (Thailand) Co., Ltd.  
 BYK-Gardner USA  
 Corrosion & Protective Coatings S.A.  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.  
 Jon-Don  
 KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.



Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TIME Group Inc.  
 TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.

**HARDNESS TESTERS**

Arkco (Thailand) Co., Ltd.  
 BYK-Gardner USA  
 Canfield & Joseph, Inc.  
 CESCO - Aqua Miser  
 Corrosion & Protective Coatings S.A.  
 DeFelsko Corporation  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.  
 Fischer Technology, Inc.  
 James Instruments Inc.  
 Jon-Don  
 KTA-Tator, Inc.  
 Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 Stone Tucker Instruments Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TIME Group Inc.

TQC Sheen  
 TQC Sheen USA  
 Uni-Royal Pack Co., Ltd.  
 Victory Air & Equipment

**TEST CABINETS, CLEVELAND CONDENSING**

Naval & Industrial Solutions  
 Q-Lab Corporation  
 The Singleton Corporation

**TEST CABINETS, CONTINUOUS SALT SPRAY**

Elcometer (Asia) Pte Ltd  
 Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 Q-Lab Corporation  
 The Singleton Corporation  
 TQC Sheen  
 TQC Sheen USA

**TEST CABINETS, CONTROLLED HUMIDITY**

Elcometer (Asia) Pte Ltd  
 Naval & Industrial Solutions  
 Q-Lab Corporation  
 The Singleton Corporation  
 TQC Sheen  
 TQC Sheen USA

**TEST CABINETS, CYCLIC IMMERSION**

Elcometer (Asia) Pte Ltd  
 Naval & Industrial Solutions  
 Q-Lab Corporation  
 The Singleton Corporation

**TEST CABINETS, CYCLIC SALT SPRAY**

Naval & Industrial Solutions  
 Paul N. Gardner Co., Inc.  
 Q-Lab Corporation  
 The Singleton Corporation  
 TQC Sheen  
 TQC Sheen USA

**TEST CABINETS, MOIST SO2**

Naval & Industrial Solutions  
 The Singleton Corporation  
 TQC Sheen

**TEST CABINETS, UV CONDENSING**

Naval & Industrial Solutions  
 Q-Lab Corporation

**TEST CABINETS, WEATHERING**

Naval & Industrial Solutions  
 Q-Lab Corporation  
 The Singleton Corporation  
 TQC Sheen  
 TQC Sheen USA

**TEST COUPONS**

ACT Test Panels LLC  
 Elcometer (Asia) Pte Ltd  
 Elcometer, Inc.  
 Fischer Technology, Inc.  
 KTA-Tator, Inc.  
 Metal Samples  
 Naval & Industrial Solutions  
 Q-Lab Corporation  
 The Singleton Corporation  
 Stone Tucker Instruments Inc.  
 T Tex Industries LP  
 Thermion



**AIR COMPRESSORS**

ABLE Equipment Rental  
Abrasives Inc.  
Air Equipment Rental Corporation  
AirTech Spray Systems  
Ammex Machine Tools Phila Inc.  
BlastOne International  
Bolair Fluid Handling Systems  
Bullard  
Canfield & Joseph Inc.  
Central Texas Equipment  
CESCO - Aqua Miser  
Doosan Portable Power  
DryAIR by TDM  
ECS North America, LLC  
Envirosafe Stripping Inc.  
ESCA Blast  
IDS Blast  
Jenny Products, Inc.  
Jon-Don  
Marco  
Norton Sandblasting Equipment  
Oak Ridge Foam and Coating systems/Franklin Consulting Services, LLC  
Pinnacle Central Co.  
Southern Equipment Distribution, LLC  
Sullivan-Palatek, Inc.  
Surface Prep Supply  
T Tex Industries LP  
The Paint Project, Inc.  
United Western Denver  
Victory Air & Equipment  
WorkSite Lighting, LLC

**AIR MONITORING, CO AND OTHER GASES**

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
Airblast B.V.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Bell & MacKenzie Company Ltd.  
Blast/Coat Systems, Inc.  
BlastOne Australia  
BlastOne International  
Bullard  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion & Protective Coatings S.A.  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
Dustless Technologies  
ENMET  
Gritco Equipment B.V.  
IDS Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
MST, Inc. (Modern Safety Techniques)  
N.T. Ruddock Co.  
Norton Sandblasting Equipment  
Pinnacle Central Co.

Pirate Brand  
Rapid Prep, LLC  
RPB Safety  
SAFE Systems, Inc.  
Southern Equipment Distribution, LLC  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
Uni-Royal Pack Co., Ltd.  
United Western Denver  
Victory Air & Equipment

**AIR MONITORING, PERSONAL**

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Blast/Coat Systems, Inc.  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion & Protective Coatings S.A.  
Corrosion Specialties Inc.  
Dustless Technologies  
Elcometer, Inc  
ENMET  
ESCA Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
Norton Sandblasting Equipment  
Rapid Prep, LLC  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
T Tex Industries LP  
United Western Denver  
Victory Air & Equipment

**AIR MONITORING, PERSONAL, PUMPS AND CALIBRATORS**

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
BlastOne International  
Bullard  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
DeHumidification Technologies, LP  
ENMET  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
Norton Sandblasting Equipment  
Oak Ridge Foam and Coating systems/Franklin Consulting Services, LLC  
Rapid Prep, LLC  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
T Tex Industries LP

United Western Denver  
Victory Air & Equipment

**BELTS AND HARNESSSES**

Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
BlastOne International  
Bon Tool Co.  
Canfield & Joseph, Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Galeton Gloves and Safety Products  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
National Concrete Accessories  
Surface Jet Inc.  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP

**COMMUNICATION SETS, ACCESSORIES**

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Blast/Coat Systems, Inc.  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion Specialties Inc.  
Elcometer, Inc  
Marco  
Norton Sandblasting Equipment  
Rapid Prep, LLC  
RPB Safety  
Surface Prep Supply  
T Tex Industries LP  
Thermion  
TST Sweden, AB  
United Western Denver  
Victory Air & Equipment

**COMPRESSED AIR PURIFIERS**

Abrasive & Equipment of Arizona, Inc.  
Airblast B.V.  
AirTech Spray Systems  
Arkco (Thailand) Co., Ltd.  
Bell & MacKenzie Company Ltd.  
BlastOne International  
Bullard  
Canfield & Joseph, Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
DryAIR by TDM  
ECS North America, LLC  
EnDiSys  
ENMET  
ESCA Blast

## EQUIPMENT BUYING GUIDE / Safety

Gritco Equipment B.V.  
IDS Blast  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MST, Inc. (Modern Safety Techniques)  
Pinnacle Central Co.  
Rapid Prep, LLC  
Sullivan-Palatek, Inc.  
Surface Prep Supply  
T Tex Industries LP  
United Western Denver  
Victory Air & Equipment

### EAR PROTECTION

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Blast/Coat Systems, Inc.  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Elcometer, Inc.  
Envirosafe Stripping Inc.  
Galeton Gloves and Safety Products  
Honeywell Safety Products  
IDS Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
National Concrete Accessories  
Pirate Brand  
Radians, Inc.  
Rapid Prep, LLC  
Ronco Protective Products  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
The Paint Project, Inc.  
Thermion  
TST Sweden, AB  
Victory Air & Equipment

### ELECTRICAL PROTECTION, GROUND FAULT CIRCUIT INTERRUPTERS

Arkco (Thailand) Co., Ltd.  
CESCO - Aqua Miser  
Envirosafe Stripping Inc.  
Marco  
MES Rentals  
SAFE Systems, Inc.  
Surface Prep Supply

### EYE PROTECTION

Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
BlastOne International  
Bon Tool Co

Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Elcometer, Inc.  
Envirosafe Stripping Inc.  
Flashlights Unlimited  
Galeton Gloves and Safety Products  
Honeywell Safety Products  
IDS Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
National Concrete Accessories  
NLB Corp.  
Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
Paul N. Gardner Co., Inc.  
Pirate Brand  
PTQ Safety  
Radians, Inc.  
Rapid Prep, LLC  
Ronco Protective Products  
Specialty Products, Inc. (SPI)  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
The Paint Project, Inc.  
Thermion  
Trimaco Inc.  
TST Sweden, AB  
Victory Air & Equipment

### FALL ARREST SYTEMS

Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Honeywell Safety Products  
Jon-Don  
Kee Safety, Inc.  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
National Concrete Accessories  
Spider By BrandSafway  
Surface Jet Inc.  
Surface Prep Supply  
T Tex Industries LP

### FOOT PROTECTION

AirTech Spray Systems  
APE Companies  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Envirosafe Stripping Inc.  
Galeton Gloves and Safety Products  
Honeywell Safety Products  
Jon-Don  
Marco

MES Rentals  
NLB Corp.  
Ronco Protective Products  
Surface Jet Inc.  
Surface Prep Supply  
TST Sweden, AB

### HAND PROTECTION

Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
DuPont Personal Protection  
Elcometer, Inc.  
Envirosafe Stripping Inc.  
Galeton Gloves and Safety Products  
Honeywell Safety Products  
IDS Blast  
Jon-Don  
Marco  
MES Rentals  
National Concrete Accessories  
NLB Corp.  
Radians, Inc.  
Rapid Prep, LLC  
Ronco Protective Products  
Surface Prep Supply  
TST Sweden, AB  
United Western Denver

### HARD HATS

Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
BlastOne International  
Bullard  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Elcometer, Inc.  
Envirosafe Stripping Inc.  
Galeton Gloves and Safety Products  
Honeywell Safety Products  
IDS Blast  
Jon-Don  
Marco  
MES Rentals  
N.T. Ruddock Co.  
Radians, Inc.  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
TST Sweden, AB  
United Western Denver

### HYGIENE FACILITIES, PORTABLE

APE Companies  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Eagle Industries  
ECS North America, LLC  
Jon-Don



Rapid Prep, LLC  
Surface Prep Supply  
T Tex Industries LP

## NETS

APE Companies  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Eagle Industries  
Marco  
Safway Group Holding LLC  
Surface Prep Supply

## PROTECTIVE CLOTHING

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Axxiom Manufacturing  
Blast/Coat Systems, Inc.  
BlastOne International  
Bolair Fluid Handling Systems  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion Specialties Inc.  
DuPont Personal Protection  
Elcometer, Inc.  
EnDiSys  
Envirosafe Stripping Inc.  
Galeton Gloves and Safety Products  
Glenn Saren & Assoc. Inc.  
Gritco Equipment B.V.  
Honeywell Safety Products  
IDS Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
N.T. Ruddock Co.  
National Concrete Accessories  
NLB Corp.  
Norton Sandblasting Equipment  
Oak Ridge Foam and Coating systems/Franklin Consulting Services, LLC  
Pirate Brand  
Radians, Inc.  
Rapid Prep, LLC  
Ronco Protective Products  
Southern Equipment Distribution, LLC  
Specialty Products, Inc. (SPI)  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
The Paint Project, Inc.  
Trimaco Inc.  
TST Sweden, AB  
United Western Denver  
Victory Air & Equipment  
VitaFlex USA

## RESPIRATORS, DISPOSABLE DUST MASK

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Blast/Coat Systems, Inc.  
BlastOne International  
Bolair Fluid Handling Systems  
Bon Tool Co  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Envirosafe Stripping Inc.  
Galeton Gloves and Safety Products  
Glenn Saren & Assoc. Inc.  
Honeywell Safety Products  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
National Concrete Accessories  
New England Silica, Inc.  
Norton Sandblasting Equipment  
Rapid Prep, LLC  
Ronco Protective Products  
Specialty Products, Inc. (SPI)  
Surface Prep Supply  
Surface Preparation-Texas, LLC

T Tex Industries LP  
The Paint Project, Inc.  
Trimaco Inc.  
Uni-Royal Pack Co., Ltd.  
United Western Denver  
Victory Air & Equipment  
VitaFlex USA

## RESPIRATORS, NEGATIVE AIR, CARTRIDGE-TYPE

Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
BlastOne International  
Bolair Fluid Handling Systems  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Honeywell Safety Products  
IDS Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
New England Silica, Inc.  
Novatek Corporation  
Rapid Prep, LLC  
RPB Safety  
Specialty Products, Inc. (SPI)  
Surface Prep Supply

# CO OUT!

**Unique, patented low temperature catalyst purifies compressed breathing air.**

- for continuous use to remove carbon monoxide
- no expensive desiccant drying equipment needed
- helps provide comfortable, humidified compressed air to meet Grade-D requirements
- by far, the most economical CO-removal alternative

**Don't Just Filter...Purify!**

Portable CO removal units from 8 SCFM to 50 SCFM; fixed systems up to 1000 SCFM.

**"Save your breath with NST"**  
MODERN SAFETY TECHNIQUES

(800) 542-6646  
Fax (419) 542-6475  
www.modsafe.com  
Email: sales@modsafe.com



Surface Preparation-Texas, LLC  
T Tex Industries LP  
Uni-Royal Pack Co., Ltd.  
Victory Air & Equipment

#### **RESPIRATORS, POWERED AIR PURIFYING, CARTRIDGE-TYPE**

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
AirTech Spray Systems  
APE Companies  
Arkco (Thailand) Co., Ltd.  
BlastOne Australia  
BlastOne International  
Bolair Fluid Handling Systems  
Bullard  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
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Bullard  
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Honeywell Safety Products  
IDS Blast  
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ESCA Blast  
Gritco Equipment B.V.  
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IDS Blast  
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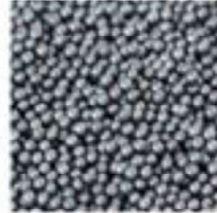
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 LS Industries, Inc.  
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 Southern Equipment Distribution, LLC  
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 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
 Desco Mfg. Co., Inc.  
 Dickson Industries, Inc.  
 Draygon LLC  
 Dustless Technologies  
 Floorex Products  
 General Equipment Company  
 HoverTrowel, Inc.  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
 Marco  
 MES Rentals  
 National Concrete Accessories  
**Novatek Corporation**  
 Smith Surface-Prep Solutions  
 Surface Prep Supply  
 The Marindus Company, Inc.  
 Trelawny Surface Preparation Technology  
 Walter S Pratt & Sons Inc.  
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Abrasives Inc.  
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Airtec Ltd.  
AirTech Spray Systems  
Albion Engineering Company  
Ammex Machine Tools Phil Inc.  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Blasting Experts  
BlastOne Australia  
BlastOne International  
Blastrac  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
CS Unitec, Inc.  
Eagle Industrial Equipment, Inc.  
Envirosafe Stripping Inc.  
Full Circle International Inc.  
General Equipment Company  
Glenn Saren & Assoc. Inc.  
Hyde Group  
Jon-Don  
Kraft Tool Co  
Lesoon Equipment Pte. Ltd.  
Magnolia Brush  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
The Marindus Company, Inc.  
MES Rentals  
National Concrete Accessories  
Sunnyside Corporation/Back To Nature Products  
Surface Prep Supply  
T Tex Industries LP  
Trelawny Surface Preparation Technology  
Victory Air & Equipment  
Walter S Pratt & Sons Inc.  
The Warehouse Rentals and Supplies  
The Wooster Brush Company

### HAZARDOUS WASTE STABILIZERS, ABRASIVE ADDITIVE

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
Bell & MacKenzie Company Ltd.  
BlastOne Australia  
BlastOne International  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Jon-Don  
Surface Prep Supply  
T Tex Industries LP  
Target Products Ltd.  
TCR Blast Abrasives  
US Minerals  
The Warehouse Rentals and Supplies

### HAZARDOUS WASTE STABILIZERS, LIQUID, GEL

BlastOne Australia  
Corrosion Specialties Inc.  
Jon-Don  
Norton Sandblasting Equipment  
PreTox Products - NexTec, Inc.  
Surface Prep Supply  
T Tex Industries LP  
TCR Blast Abrasives  
The Warehouse Rentals and Supplies

### HEAT GUNS

Buffalo Shrink Wrap Inc  
Eagle Industries  
IBIX North America, Surface Tech. LLC  
Marco  
MES Rentals  
Pro-Tect Services, Inc.  
Surface Prep Supply  
Titan Tool

### HOSES AND FITTINGS

Aargo Environmental Inc.  
ABC Industries, Inc.  
Abrasive & Equipment of Arizona, Inc.  
Abrasive Warehouse & Equipment  
Abrasives Inc.



Absolute Equipment  
Airblast B.V.  
AirTech Spray Systems  
**All Jetting Technologies, Inc.**  
Ammex Machine Tools Phil Inc.  
APE Companies  
APEX Waterjetting Global  
Arkco (Thailand) Co., Ltd.  
Ascon-Blast  
Atlantic Design Inc.  
Axxiom Manufacturing  
Bell & MacKenzie Company Ltd.  
Blast/Coat Systems, Inc.  
Blasting Experts  
Blastlink USA  
BlastOne Australia  
BlastOne International  
Bullard  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
Desco Mfg. Co., Inc.  
Draygon LLC  
DryAIR by TDM  
Eagle Industrial Equipment, Inc.  
Elcometer (Asia) Pte Ltd  
Elcometer, Inc  
ESCA Blast  
FS Solutions  
Graco Inc.  
Guzzler Manufacturing  
IBIX North America, Surface Tech. LLC  
IDS Blast  
Industrial Vacuum Equipment Corp.  
Jetstream of Houston  
Jollyflex USA  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
Michigan Power Cleaning  
N.T. Ruddock Co.  
NLB Corp.  
Norton Sandblasting Equipment  
The Paint Project, Inc.



Pinnacle Central Co.  
 Pirate Brand  
 Rapid Prep, LLC  
 SAFE Systems, Inc.  
 Southern Equipment Distribution, LLC  
 Specialty Products, Inc. (SPI)  
 Sponge-Jet, Inc.  
 Surface Prep Supply  
 Surface Preparation-Texas, LLC  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Techni-Quip Inc.  
 Titan Tool  
 United Western Denver  
 Vector Technologies Ltd.  
 Victory Air & Equipment  
 Walter S Pratt & Sons Inc.  
 The Warehouse Rentals and Supplies  
 Water Canadianon

**OIL AND WATER SEPARATORS**

Abrasive & Equipment of Arizona, Inc.  
 Absolute Equipment  
 Airblast B.V.  
 AirTech Spray Systems  
 Ammex Machine Tools Phil Inc.  
 Arkco (Thailand) Co., Ltd.  
 BlastOne Australia  
 BlastOne International  
 CESCO - Aqua Miser  
 Clemco Industries Corp.  
 Corrosion Specialties Inc.

Dragyon LLC  
 DryAIR by TDM  
 Eagle Industrial Equipment, Inc.  
 Elcometer (Asia) Pte Ltd  
 Gritco Equipment B.V.  
 IBIX North America, Surface Tech. LLC  
 IDS Blast  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 Mi-T-M Corporation  
 Pinnacle Central Co.  
 Pirate Brand  
 Rapid Prep, LLC  
 Southern Equipment Distribution, LLC  
 Spin Import Export  
 Surface Prep Supply  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Techni-Quip Inc.  
 Trask-Decrow Machinery, Inc.  
 United Western Denver  
 Van Air Systems  
 Victory Air & Equipment  
 The Warehouse Rentals and Supplies

**PAINT REMOVER, HEAT INDUCTION**

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 Solvent Kleene, Inc.  
 Surface Prep Supply  
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**PAINT STRIPPERS, CHEMICAL**

Abatron, Inc.  
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 CESCO - Aqua Miser  
 Diedrich Technologies Inc.  
 Draygon LLC  
 Franmar  
 Glenn Saren & Assoc. Inc.  
 Jon-Don  
 MES Rentals  
 National Concrete Accessories  
 PreTox Products - NexTec, Inc.  
 Sea to Sky Innovations Ltd  
 Solvent Kleene, Inc.  
 Southern Industrial Supply, Inc.  
 Sunnyside Corporation/Back To Nature Products  
 Surface Prep Supply  
 TCR Blast Abrasives  
 Victory Air & Equipment

**PATCHING MATERIALS**

Abatron, Inc.  
 Accumet Materials Co.  
 Draygon LLC  
 Hyde Group  
 IBIX North America, Surface Tech. LLC  
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 The Marindus Company, Inc.  
 National Concrete Accessories  
 Southern Industrial Supply, Inc.  
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 Abrasive Warehouse & Equipment  
 Abrasives Inc.  
 Airblast B.V.  
 AirTech Spray Systems  
 Arkco (Thailand) Co., Ltd.  
 Ascon-Blast  
 Bell & MacKenzie Company Ltd.  
 Blast/Coat Systems, Inc.  
 BlastOne International  
 CESCO - Aqua Miser  
 Clemco Industries Corp.  
 Corrosion Specialties Inc.  
 Desco Mfg. Co., Inc.  
 Eagle Industrial Equipment, Inc.  
 Friess Equipment, Inc.  
 Goff, Inc.  
 Hammelmann Corp.  
 Hammelmann GmbH  
 IDS Blast  
 Lesoon Equipment Pte. Ltd.  
 LS Industries, Inc.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
 Marco  
 MES Rentals  
 NLB Corp.  
 Norton Sandblasting Equipment  
 Pinnacle Central Co.

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 Shanghai Shengchang Industry Equipment Co., Ltd.  
 Southern Equipment Distribution, LLC  
 Spin Import Export  
 Sponge-Jet, Inc.  
 Surface Jet Inc.  
 Surface Prep Supply  
 T Tex Industries LP  
 TCR Blast Abrasives  
 Techni-Quip Inc.  
 United Western Denver  
 Victory Air & Equipment  
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 Westech

#### POLISHING MACHINES

Abrasiflex Pty Ltd  
 Ammex Machine Tools Phil Inc.  
 APE Companies  
 Dickson Industries, Inc.  
 Draygon LLC  
 Floorex Products  
 Jon-Don  
 Marco  
 The Marindus Company, Inc.  
 Surface Prep Supply  
 Trelawny Surface Preparation Technology  
 WerkMaster Grinders & Sanders Inc.

#### POLISHING PADS AND TOOLING

Abrasiflex Pty Ltd  
 Ammex Machine Tools Phil Inc.  
 APE Companies  
 Draygon LLC  
 Dustless Technologies  
 Floorex Products  
 Jon-Don  
 Marco  
 The Marindus Company, Inc.  
 MES Rentals  
 Surface Prep Supply  
 Trelawny Surface Preparation Technology  
 WerkMaster Grinders & Sanders Inc.

#### POWER TOOLS, CLEANING MEDIA

Aargo Environmental Inc.  
 Abrasive & Equipment of Arizona, Inc.  
 Abrasives Inc.  
 AirTech Spray Systems  
 Ammex Machine Tools Phil Inc.  
 Arkco (Thailand) Co., Ltd.  
 Blasting Experts  
 CESCO - Aqua Miser  
 Cold Jet  
 Corrosion Specialties Inc.  
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 Ammex Machine Tools Phil Inc.  
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 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
 Desco Mfg. Co., Inc.  
 Dustless Technologies  
 Eagle Industrial Equipment, Inc.  
 IDS Blast  
 Jon-Don  
 Lesoon Equipment Pte. Ltd.  
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 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
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 Corrosion Specialties Inc.  
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 Dawson-Macdonald Company  
 Desco Mfg. Co., Inc.  
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 Draygon LLC  
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**POWER TOOLS, NEEDLE GUNS**

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 Ammex Machine Tools Phil Inc.  
 Arkco (Thailand) Co., Ltd.  
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 Blasting Experts  
 BlastOne Australia

BlastOne International  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
 Dawson-Macdonald Company  
 Desco Mfg. Co., Inc.



Eagle Industrial Equipment, Inc.  
 IDS Blast  
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## POWER TOOLS, ROTARY HAMMERS

Aargo Environmental Inc.  
 Absolute Equipment  
 Airtec Ltd.

## AirTech Spray Systems

Ammex Machine Tools Phil Inc.  
 Arkco (Thailand) Co., Ltd.  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 Canfield & Joseph, Inc  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
 Desco Mfg. Co., Inc.  
 IDS Blast  
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 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
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## POWER TOOLS, ROTARY PEENING EQUIPMENT

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 Absolute Equipment  
 AirTech Spray Systems  
 Ammex Machine Tools Phil Inc.  
 Arkco (Thailand) Co., Ltd.  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
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 Desco Mfg. Co., Inc.



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**POWER TOOLS, SCARIFIERS**

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AirTech Spray Systems  
Ammex Machine Tools Phil Inc.  
Arkco (Thailand) Co., Ltd.  
Blasting Experts  
BlastOne Australia  
BlastOne International  
Blastrac  
Central Texas Equipment  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
CS Unitec, Inc.  
Desco Mfg. Co., Inc.  
Desmond Mfg. Co.  
Dickson Industries, Inc.  
Draygon LLC  
Floorex Products  
General Equipment Company  
HoverTrowel, Inc.  
IDS Blast  
Jon-Don  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
The Marindus Company, Inc.  
MES Rentals  
Norton Sandblasting Equipment  
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**POWER TOOLS, WIRE BRUSHES**

Aargo Environmental Inc.  
Abrasives Inc.  
Absolute Equipment  
AirTech Spray Systems  
Ammex Machine Tools Phil Inc.  
Arkco (Thailand) Co., Ltd.  
Blasting Experts  
BlastOne Australia  
BlastOne International  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Desco Mfg. Co., Inc.  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Marco  
MES Rentals  
Montipower, Inc.  
Norton Sandblasting Equipment  
Novatek Corporation



Rapid Prep, LLC  
Spin Import Export  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
T Tex Industries LP  
United Western Denver  
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**PRESSURE WASHERS**

Airblast B.V.  
All Jetting Technologies, Inc.  
Arkco (Thailand) Co., Ltd.  
BlastOne Australia  
Central Texas Equipment  
CESCO - Aqua Miser  
CleanerBlast Systems  
Corrosion Specialties Inc.  
Desco Mfg. Co., Inc.  
Jenny Products, Inc.  
Jet Edge  
Jon-Don  
Marco  
MES Rentals  
Michigan Power Cleaning  
Mi-T-M Corporation  
NLB Corp.  
Pinnacle Central Co.  
Rapid Prep, LLC  
Surface Prep Supply  
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**PUMPS, WATER BLASTING**

Aargo Environmental Inc.  
Airblast B.V.

AirTech Spray Systems  
All Jetting Technologies, Inc.  
Ammex Machine Tools Phil Inc.  
APEX Waterjetting Global  
Arkco (Thailand) Co., Ltd.  
Blasting Experts  
BlastOne Australia  
Canfield & Joseph Inc.  
Canfield & Joseph, Inc.  
CESCO - Aqua Miser  
CleanerBlast Systems  
Eagle Industrial Equipment, Inc.  
FS Solutions  
Hammelmann Corp.  
Hammelmann GmbH  
Jet Edge  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
Marco  
MES Rentals  
Michigan Power Cleaning  
NLB Corp.  
Surface Jet Inc.  
Surface Prep Supply  
T Tex Industries LP  
United Western Denver  
Victory Air & Equipment  
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**ROBOTIC BLASTING SYSTEMS, AIR ABRASIVE**

Abrasive & Equipment of Arizona, Inc.  
Abrasive Warehouse & Equipment  
ABS Blast  
Airblast B.V.  
ARS Recycling Systems, LLC  
Ascon-Blast  
Blasting Experts  
Blastman Robotics Ltd.  
BlastOne Australia  
BlastOne International  
CESCO - Aqua Miser  
Clemco Industries Corp.  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
Friess Equipment, Inc.  
Gritco Equipment B.V.  
Hammelmann Corp.  
ICM - International Climbing Machines  
IDS Blast  
LS Industries, Inc.  
Marco  
Norton Sandblasting Equipment  
Pellets, LLC  
RBW Enterprises, Inc.  
Sponge-Jet, Inc.  
Surface Prep Supply  
Surface Preparation-Texas, LLC  
T Tex Industries LP  
TCR Blast Abrasives

**ROBOTIC BLASTING SYSTEMS, WATER**

Abrasive & Equipment of Arizona, Inc.  
APEX Waterjetting Global  
Blasting Experts  
BlastOne Australia  
CESCO - Aqua Miser  
Dawson-Macdonald Company  
Hammelmann Corp.  
Hammelmann GmbH  
ICM - International Climbing Machines

## EQUIPMENT BUYING GUIDE / Surface Preparation

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Surface Jet Inc.  
Surface Prep Supply  
T Tex Industries LP  
VLN Advanced Technologies Inc.

### RUST INHIBITORS

Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.  
APE Companies  
Arkco (Thailand) Co., Ltd.  
Blasting Experts  
BlastOne Australia  
BlastOne International  
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HoldTight Solutions  
IBIX North America, Surface Tech. LLC  
IDS Blast  
Jon-Don  
Marco  
MES Rentals  
N.T. Ruddock Co.  
National Concrete Accessories  
Norton Sandblasting Equipment  
The Paint Project, Inc.  
Pinnacle Central Co.  
Porter Warner Industries  
Pro-Tect Services, Inc.  
Rapid Prep, LLC  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
T Tex Industries LP  
Target Products Ltd.  
TCR Blast Abrasives  
TMS Metalizing Systems, Ltd.  
United Western Denver  
Victory Air & Equipment  
The Warehouse Rentals and Supplies

### SALT REMOVAL CHEMICALS

Abrasives Inc.  
APE Companies  
Arkco (Thailand) Co., Ltd.  
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Canfield & Joseph Inc.  
CESCO - Aqua Miser

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Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
Norton Sandblasting Equipment  
Pinnacle Central Co.  
Porter Warner Industries  
Rapid Prep, LLC  
Specialty Products, Inc. (SPI)  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
T Tex Industries LP  
Target Products Ltd.  
TCR Blast Abrasives  
United Western Denver  
Victory Air & Equipment  
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### SCARIFIERS, CONVENTIONAL

Aargo Environmental Inc.  
Absolute Equipment  
Airtec Ltd.  
Blasting Experts  
BlastOne International  
Blastrac  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
CS Unitec, Inc.  
Desco Mfg. Co., Inc.



Desmond Mfg. Co.  
Dickson Industries, Inc.  
Draygon LLC  
Floorex Products  
General Equipment Company  
HoverTrowel, Inc.  
Jon-Don  
Marco  
The Marindus Company, Inc.  
Novatek Corporation  
Pinnacle Central Co.  
Rapid Prep, LLC  
Smith Surface-Prep Solutions  
Surface Prep Supply  
T Tex Industries LP  
Trelawny Surface Preparation Technology  
Walter S Pratt & Sons Inc.  
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### SCREENS, ABRASIVE SEPARATING

Abrasive & Equipment of Arizona, Inc.  
Airblast B.V.  
AirTech Spray Systems  
Arkco (Thailand) Co., Ltd.

Atlantic Design Inc.  
Blasting Experts  
BlastOne Australia  
BlastOne International  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
IDS Blast  
Jon-Don  
Lesoon Equipment Pte. Ltd.  
LS Industries, Inc.  
Marco  
N.T. Ruddock Co.  
Norton Sandblasting Equipment  
Rapid Prep, LLC  
SAFE Systems, Inc.  
Stone Tucker Instruments Inc.  
Surface Prep Supply  
T Tex Industries LP  
TCR Blast Abrasives  
TST Sweden, AB  
United Western Denver  
Vector Technologies Ltd.  
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### SHOT BLAST MACHINES, PORTABLE, HORIZONTAL

Abrasiflex Pty Ltd  
Abrasive & Equipment of Arizona, Inc.  
Abrasive Warehouse & Equipment  
Abrasives Inc.  
Airblast B.V.  
Airtec Ltd.  
Ammex Machine Tools Phil Inc.  
APE Companies  
Arkco (Thailand) Co., Ltd.  
ARS Recycling Systems, LLC  
Blasting Experts  
BlastOne Australia  
BlastOne International  
Blastrac  
CESCO - Aqua Miser  
Corrosion Specialties Inc.  
Dawson-Macdonald Company  
Dickson Industries, Inc.  
ECS North America, LLC  
Elcometer (Asia) Pte Ltd  
Floorex Products  
Goff, Inc.  
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LS Industries, Inc.  
Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
The Marindus Company, Inc.  
MES Rentals  
N.T. Ruddock Co.  
Oak Ridge Foam and Coating Systems/Franklin Consulting Services, LLC  
Pellets, LLC  
Pinnacle Central Co.  
RBW Enterprises, Inc.  
Shanghai Shengchang Industry Equipment Co., Ltd.  
Surface Prep Supply  
T Tex Industries LP  
United Western Denver  
Victory Air & Equipment  
Walter S Pratt & Sons Inc.  
The Warehouse Rentals and Supplies

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Abrasive & Equipment of Arizona, Inc.  
Abrasives Inc.



Airblast B.V.  
 Ammex Machine Tools Phil Inc.  
 APE Companies  
 Arkco (Thailand) Co., Ltd.  
 ARS Recycling Systems, LLC  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 Blastrac  
 CESCO - Aqua Miser  
 Corrosion Specialties Inc.  
 ECS North America, LLC  
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 LS Industries, Inc.  
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 N.T. Ruddock Co.  
 Pellets, LLC  
 Pinnacle Central Co.  
 RBW Enterprises, Inc.  
 Shanghai Shengchang Industry Equipment Co., Ltd.  
 Surface Prep Supply  
 T Tex Industries LP  
 United Western Denver  
 Victory Air & Equipment  
 Walter S Pratt & Sons Inc.  
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**STEAM CLEANERS**

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 Airtec Ltd.  
 Central Texas Equipment  
 CESCO - Aqua Miser  
 IBIX North America, Surface Tech. LLC  
 Jenny Products, Inc.  
 Jon-Don  
 Michigan Power Cleaning  
 The Paint Project, Inc.  
 Rapid Prep, LLC  
 Surface Prep Supply  
 Unimanix  
 Victory Air & Equipment  
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 Water Canadianon

**VACUUM BLAST SYSTEMS**

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 Abrasiflex Pty Ltd  
 Abrasive & Equipment of Arizona, Inc.  
 Abrasive Warehouse & Equipment  
 Abrasives Inc.  
 Airblast B.V.  
 Arkco (Thailand) Co., Ltd.  
 ARS Recycling Systems, LLC  
 Atlantic Design Inc.  
 Axxiom Manufacturing  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International

Blastrac  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Clemco Industries Corp.  
 Corrosion Specialties Inc.  
 Dawson-Macdonald Company  
 Eagle Industrial Equipment, Inc.  
 ECS North America, LLC  
 Friess Equipment, Inc.  
 Gritco Equipment B.V.  
 HoverTrowel, Inc.  
 IDS Blast  
 Lesoon Equipment Pte. Ltd.  
 Manus Abrasive Systems, Inc./Mod-U-Blast Mfg.  
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 Vector Technologies Ltd.  
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 Airblast B.V.  
 Airtec Ltd.  
 APE Companies  
 APEX Waterjetting Global  
 Arkco (Thailand) Co., Ltd.  
 ARS Recycling Systems, LLC  
 Atlantic Design Inc.  
 Axiom Manufacturing  
 Blast/Coat Systems, Inc.  
 Blasting Experts  
 BlastOne Australia  
 BlastOne International  
 Blastrac  
 Canfield & Joseph Inc.  
 CESCO - Aqua Miser  
 Clemco Industries Corp.  
 Corrosion Specialties Inc.  
 CS Unitec, Inc.  
 Dawson-Macdonald Company  
 Desco Mfg. Co., Inc.



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 Dragon LLC  
 Dustless Technologies  
 Eagle Industrial Equipment, Inc.  
 ECS North America, LLC  
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Smith Surface-Prep Solutions  
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Sponge-Jet, Inc.  
Surface Jet Inc.  
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Surface Preparation-Texas, LLC  
SURFACE Worldwide, LLC  
T Tex Industries LP  
Trelawny Surface Preparation Technology  
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United Western Denver  
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Victory Air & Equipment  
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## Westech

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Arkco (Thailand) Co., Ltd.  
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Blasting Experts  
BlastOne Australia  
BlastOne International  
Canfield & Joseph Inc.  
CESCO - Aqua Miser  
Clemco Industries Corp.  
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Dawson-Macdonald Company  
Eagle Industrial Equipment, Inc.  
Elcometer, Inc  
IDS Blast  
Lesoon Equipment Pte. Ltd.  
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BlastOne Australia  
CESCO - Aqua Miser  
Eagle Industrial Equipment, Inc.  
FS Solutions  
Hammelmann Corp.  
Hammelmann GmbH  
IBIX North America, Surface Tech. LLC  
Jet Edge  
Jetstream of Houston  
Marco  
MES Rentals  
Michigan Power Cleaning  
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Parker Hannifin- Parflex  
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CESCO - Aqua Miser  
Eagle Industrial Equipment, Inc.  
FS Solutions  
Hammelmann Corp.  
Hammelmann GmbH  
Jet Edge  
Jetstream of Houston  
LS Industries, Inc.  
Marco  
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Marco  
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Courtesy of Pamela Simmons.



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Manufacturer

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**Contact:** Fred Silhanek  
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www.airblast.com  
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**Phone:** 41-619769525  
tom.wyser@airtec.ch  
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**Contact:** Ron Perry  
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Manufacturer

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**Contact:** Richard Ahlstrom  
**Phone:** 800-445-1754  
richard@abatron.com  
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Manufacturer

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Distributor

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Minneapolis, MN 55432  
**Contact:** Tony Elizondo  
**Phone:** 800-716-9651  
sales@abrasivesinc.com  
www.abrasivesinc.com  
Manufacturer / Distributor

**Abrasives Inc.**  
4090 Highway 49  
Glen Ullin, ND 58631  
**Contact:** Jim Kaiser  
**Phone:** 800-584-7524  
sales@abrasivesinc.com  
www.abrasivesinc.com  
Manufacturer / Distributor

**ABS Blast**  
250 S. Shiloh Road  
Garland, TX 75042  
**Contact:** Lance Gayle, Derek Pawlivsky  
**Phone:** 972-205-9309  
info@absblast.com  
www.absblast.com  
Manufacturer

**Absolute Equipment**  
3038 Babcock Blvd.  
Pittsburgh, PA 15237  
**Contact:** Fred Silhanek  
**Phone:** 412-931-6655  
absoluteequipment@absoluteequip.com  
www.absoluteequip.com  
Distributor / Rental Company

**Accumet Materials Co.**  
200 Executive Blvd., Ste. 200B  
Ossining, NY 10562  
**Contact:** Brenda Lyons  
**Phone:** 914-762-1540  
sales@accumetmaterials.com  
www.accumetmaterials.com  
Manufacturer

**ACT Test Panels LLC**  
273 Industrial Dr.  
Hillsdale, MI 49242  
**Contact:** sales@acttestpanels.com  
**Phone:** 517-439-1485  
sales@acttestpanels.com  
www.acttestpanels.com  
Manufacturer

**Advance Equipment Mfg.**  
4615 W. Chicago Avenue  
Chicago, IL 60651  
**Contact:** DeAnne Shallcross  
**Phone:** 773-287-8220  
sales@advance-equipment.com  
www.advance-equipment.com  
Manufacturer

**Aggreko**  
15600 John F. Kennedy Blvd. Suite 900  
Houston, TX 77032  
**Contact:** Corporate Office  
**Phone:** 800-244-7356  
aggreko@aggreko.com  
www.aggreko.com  
Rental Company

**Air Conditioner Rental and Leasing Inc.**  
1001 Freyburg Street  
Pittsburgh, PA 15203  
**Contact:** Scott Penner  
**Phone:** 800-581-4844  
sp@acrental.com  
www.acrental.com  
Manufacturer / Distributor / Rental Company

**Air Equipment Rental Corporation**  
8200 B Memorial Dr.  
Plain City, OH 43064  
**Contact:** Mike Abbott  
**Phone:** 614-733-0777  
mabbott@airequipmentrental.com  
www.airequipmentrental.com  
Distributor / Rental Company

**Airblast AFC**  
250 Airport Parkway  
Oroville, CA 95965  
**Contact:** Jeremy Hagan  
**Phone:** 800-331-7744  
jeremy@afcfilters.com  
www.airblastafc.com  
Manufacturer / Distributor

**Airblast B.V.**  
PO Box 1075  
Heerhugowaard, 1700 BB Netherlands  
**Contact:** Mr. Nick Smith  
**Phone:** 31-72-5718002  
info@airblast.com  
www.airblast.com  
Manufacturer / Distributor

**Airtec Ltd.**  
Industriestrasse 40  
Zunzgen, CH-4455 Switzerland  
**Contact:** Thomas Wyser  
**Phone:** 41-619769525  
tom.wyser@airtec.ch  
Manufacturer / Distributor / Rental Company

**AirTech Spray Systems**  
4303 Pinemont Dr.  
Houston, TX 77018  
**Contact:** Ronald Cradit  
**Phone:** 713-681-0013  
sales@airtechspray.com  
www.airtechspray.com  
Manufacturer / Distributor / Rental Company

**Albion Engineering Company**  
1250 N. Church Street  
Moorestown, NJ 08057  
**Contact:** Dean Hammel  
**Phone:** 856-235-6688  
sales@albioneng.com  
www.albioneng.com  
Manufacturer

**All Jetting Technologies, Inc.**  
2740 Martin Downs Blvd., #318  
Palm City, FL 34990  
**Contact:** Rodney Hardin  
**Phone:** 772-286-1218  
info@alljetting.com  
www.alljetting.com  
Manufacturer / Distributor

**AMMEX MACHINE TOOLS PHIL INC**  
#27 Judge Juan Luna Street Del Monte  
Quezon City, 01105 Philippines  
**Contact:** Faith Huelar  
**Phone:** 352-8710  
sales.ammex@gmail.com  
www.ammexmachine.webs.com  
Distributor

**APE Companies**  
3009 Pasadena Freeway, Suite 100  
Pasadena, TX 77503  
**Contact:** Colby Black  
**Phone:** 713-882-7467  
cblack@apecompanies.com  
www.apecompanies.com  
Distributor

**APEX Waterjetting Global**  
3569 SW Corporate Parkway  
Palm City, FL 34990  
**Contact:** APEX Waterjetting  
**Phone:** 866-273-9109  
www.apexwaterjetting.com  
Manufacturer / Distributor



**ARID-DRY by Controlled Dehumidification**

5931 Ford Court  
Brighton, MI 48116  
**Contact:** Tom Haarla  
**Phone:** 810-229-7900  
sales@ctrdh.com  
www.ctrdh.com  
Manufacturer / Distributor

**Arkco (Thailand) Co., Ltd.**  
19/23 Moo 8 Suksawad Road SOI 84  
Naiklongbangplakod Sub-District,  
Prasamutjedee District  
Samutprakarn, 10290 Thailand  
**Contact:** Kevin Yeo  
**Phone:** 66-89-920-2257  
sales@arkcothailand.com  
www.arkcothailand.com  
Distributor

**Arma Coatings**  
5555 W. 11th Ave.  
Eugene, OR 97402  
**Contact:** Brian Clements  
**Phone:** 541-688-3500  
sales@armacoatings.com  
www.armacoatings.com  
Manufacturer / Distributor

**ARS Recycling Systems, LLC**  
4000 McCarney Rd.  
Lowellville, OH 44436  
**Contact:** Doug Reed  
**Phone:** 330-536-8210  
info@arsrecycling.com  
www.arsrecycling.com  
Manufacturer

**ascon-blast**  
1-7-3, Kudan Kita, Chiyoda-ku  
Tokyo, 102-0073 Japan  
**Phone:** 81-3-6261-6530  
info@ascon-blast.co.jp  
www.ascon-blast.co.jp  
Manufacturer / Distributor

**AST/Adhesive Systems Technology Corp.**  
1600 Freeway Boulevard  
Brooklyn Center, MN 55430  
**Contact:** Stephen Hirt  
**Phone:** 763-592-2060  
sales@ast-corp.net  
www.ast-corp.net  
Manufacturer

**Atlantic Design Inc.**  
11505 Pocomoke Court  
Baltimore, MD 21220  
**Contact:** Russell Roden  
**Phone:** 866-225-5234  
info@calladi.com  
www.atlanticdesigninc.com  
Manufacturer / Rental Company

**Axxiom Manufacturing**  
11927 S. Highway 6  
Fresno, TX 77545  
**Contact:** Sales  
**Phone:** 832-295-5200  
sales@axxiommfg.com  
www.schmidtabrasiveblasting.com  
Manufacturer

**B**

**Barton International**  
Six Warren Street  
Glens Falls, NY 12801  
**Phone:** 800-741-7756  
info@barton.com  
www.barton.com  
Manufacturer / Distributor

**Beardsley Sales**  
4535 State Route 89  
Seneca Falls, NY 13148  
**Contact:** Dave Swenson  
**Phone:** 315-549-2627  
Dswenson@rochester.rr.com  
Manufacturer

**Bell & MacKenzie Company Ltd.**  
P.O. Box 844, LCD #1 500 Sherman Ave. North  
Hamilton, ON L8N 3N9 Canada  
**Contact:** Richard Bell  
**Phone:** 888-794-5665  
info@bellandmackenzie.com  
Distributor

**Bellemare Abrasives & Minerals(SDF Abrasives, Inc.)**  
8750 Boul. Industriel  
Trois Rivières, QC G9A 5E1 Canada  
**Contact:** Allain Hache / Martin Cote  
**Phone:** 506-380-4017 or 819-695-0170  
mcote@groupebellemare.com  
www.groupebellemare.com  
Manufacturer

**Bittner's Spray Equipment Co.**  
1301 Brummel Avenue  
Elk Grove Village, IL 60007  
**Contact:** Greg Bittner  
**Phone:** 847-364-7661  
zbitt@msn.com  
www.bsesprayit.com  
Distributor

**Bix Manufacturing Company, Inc.**  
108 Cude Lane  
Madison, WA 37115  
**Contact:** Neheeh Kehri  
Manufacturer

**Blast/Coat Systems, Inc.**  
9823 Crescent Center Dr.  
Rancho Cucamonga, CA 91730  
**Contact:** John Ulrich / Linda Mendoza  
**Phone:** 909-483-4200  
info@blastcoat.com  
www.blastcoat.com  
Manufacturer / Distributor / Rental Company

**Blasting Experts**  
343 Devonshire Terrace  
Ancaster, ON L9G 4R1 Canada  
**Contact:** Eng. Mauricio Herrera  
**Phone:** 905-541-0997  
sales@blastingexperts.com  
http://www.blastingexperts.com  
Manufacturer / Distributor / Rental Company

**Blastlink USA**  
11927 Windfern Road  
Houston, TX 77064  
**Contact:** Jeanne Haner  
blastlink.usa@gmail.com  
Distributor

**Blastman Robotics Ltd.**  
Kaarnatie 40  
Oulu, FI, 90530 Finland  
**Contact:** Sakari Veijola  
**Phone:** 358-407616561  
sakari.veijola@blastman.fi  
www.blastman.fi  
Manufacturer

**BlastOne Australia**  
5 Queens Road  
Melbourne, 03004 Australia  
**Contact:** Phil Gooden  
**Phone:** 61-800-190-190  
sales.au@blastone.com  
www.blastone.com.au  
Manufacturer / Distributor / Rental Company

**BlastOne International**  
4510 Bridgeway Avenue  
Columbus, OH 43219  
**Contact:** Gavin Gooden  
**Phone:** 614-476-3000  
sales@blastone.com  
www.blastone.com  
Distributor / Rental Company

**BlastPro Mfg., Inc.**  
6021 Melrose Lane  
Oklahoma City, OK 73127  
www.blastpromfg.com

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

**BlueGreen Technologies LLC**  
1408 Hamlin Ave., Unit A  
Saint Cloud, FL 34771  
**Contact:** Craig Grason  
**Phone:** 407-466-4427  
craig@farrow4u.com  
www.farrow4u.com  
Distributor

**Bolair Fluid Handling Systems**  
17 Brownridge Rd. Units 1 & 2  
Halton Hills, ON L7G 0C6 Canada  
**Contact:** Gregory Haddow  
**Phone:** 877-326-5247  
sales@bolair.ca  
www.bolair.ca  
Manufacturer / Distributor / Rental Company

**Bon Tool Co.**  
4430 Gibsonsia Rd.  
Gibsonia, PA 15044  
**Contact:** Sales  
**Phone:** 724-443-7080  
sales@bontool.com  
www.bontool.com  
Manufacturer

**Browns Hill Sand**  
135 W. Seventh Ave., PO Box 324  
Homestead, PA 15120  
**Contact:** Steve Krasne  
**Phone:** 412-461-9060  
gmail@brownshillsand.com  
www.brownshillsand.com  
Distributor

**Buffalo Shrink Wrap Inc**  
PO Box 537  
Clarence, NY 14031  
**Contact:** William Casilio Jr  
**Phone:** 800-792-8819  
orders@buffaloshrinkwrap.com  
www.buffaloshrinkwrap.com  
Manufacturer / Distributor

**Bullard**  
1898 Safety Way  
Cynthiana, KY 41031  
**Contact:** Steve Couture  
**Phone:** 859-234-6616  
deborah\_puracchio@bullard.com  
www.bullard.com  
Manufacturer

**BYK-Gardner USA**  
9104 Guilford Rd.  
Columbia, MD 21046  
**Contact:** Sherry Brown  
**Phone:** 800-343-7721  
info.byk.gardner.usa@altana.com  
www.byk.com/instruments  
Manufacturer

**C**

**Canfield & Joseph, Inc.**  
830 Armourdale Pkwy  
Kansas City, KS 66105  
**Contact:** Mike Sifferman  
**Phone:** 800-933-3643  
kc@canfieldjoseph.com  
www.canfieldjoseph.com  
Distributor

**Canfield & Joseph, Inc.**  
566 N. Beach Street  
Fort Worth, MO 76111  
**Contact:** Bill Riley  
**Phone:** 800-480-8957  
fw@canfieldjoseph.com  
www.canfieldjoseph.com  
Distributor

**Canfield & Joseph, Inc.**  
5460 Brown Avenue  
St. Louis, MO 63120  
**Contact:** Andrew Bruce  
**Phone:** 800-513-9857  
sl@canfieldjoseph.com  
www.canfieldjoseph.com  
Distributor

**Canfield & Joseph, Inc.**  
6536 E. 42nd Street  
Tulsa, OK 74145  
**Contact:** Jared Joseph  
**Phone:** 800-364-5452  
tu@canfieldjoseph.com  
www.canfieldjoseph.com  
Distributor

**Cate Wyoming Equipment Company, LLC**  
3002 Conestoga Drive  
Gillette, WY 82718  
**Contact:** Randy Hartley  
**Phone:** 307-682-0571  
Distributor

**CBG Biotech**  
31075 Solon Industrial Parkway  
Solon, OH 44139  
**Contact:** Nancy Isom  
**Phone:** 800-941-9484  
info@cbgtechnologies.com  
cbgbiotech.com  
Manufacturer

**Central Texas Equipment**  
1401 Central Commerce Circle  
Pflugerville, TX 78660  
**Contact:** Bob Henry  
**Phone:** 512-442-2371  
sales@ctegroup.net  
www.ctegroup.net  
Distributor

## EQUIPMENT BUYING GUIDE / Company Profiles

### CESCO - Aqua Miser

7251 Cross County Rd.  
N. Charleston, SC 29418  
**Contact:** Karen Haun  
**Phone:** 843-760-3000  
info@blastandpaint.com  
www.blastandpaint.com  
Manufacturer / Distributor / Rental Company

### CHLOR RID International Inc.

811 Sharon Drive  
Westlake, OH 44145  
**Contact:** Customer Service  
**Phone:** 800-231-9696  
info.us@borchers.com  
www.chlor-rid.com  
Manufacturer

### Cincinnati Color Company

1027 Dalton Street  
Cincinnati, OH 45203  
**Contact:** Doug Deifel  
**Phone:** 513-241-1090  
ddeifel@cincinnati-color.com  
www.cincinnati-color.com  
Distributor

### Clean&Safe

101 N. Main St. Ste. 1504  
Greenville, SC 29601  
**Phone:** 864-370-9744  
cleansafe@dropcloth.com  
www.dropcloth.com  
Distributor

### CLEARBLAST

706 Old Westtown Road Suite E  
West Chester, PA 19382  
**Contact:** Sales  
**Phone:** 888-992-5278  
info@clearblast.com  
www.clearblast.com  
Manufacturer

### Clemco Industries Corp.

One Cable Car Drive  
Washington, MO 63090  
**Contact:** Customer Service  
**Phone:** 636-239-4300  
info@clemcoindustries.com  
www.clemcoindustries.com  
Manufacturer

### Clothes Cleaning Systems

4475 Technology Drive  
Wilson, NC 27896  
**Contact:** Sam Bowling  
**Phone:** 252-243-3752  
sam@skbowling.com  
www.clothescleaningsystems.com  
Manufacturer / Distributor

### Cold Jet

455 Wards Corner Rd.  
Loveland, OH 45140  
**Contact:** David Watson  
**Phone:** 513-831-3211  
info@coldjet.com  
www.coldjet.com  
Manufacturer

### ColorTec & FORMULATOR Software

28 Center St.  
Clinton, NJ 08809  
**Contact:** J. DeGroff  
**Phone:** 908-735-2248  
sales@formulatorus.com  
www.formulatorus.com  
Manufacturer

### Corrosion & Protective Coatings S.A.

Av. Paseo la Castellana 814, Urb. la Castellana  
Lima, 33 Peru  
**Contact:** Gina Aliaga  
**Phone:** 51-1-449-2006  
galiaga@cpinstrumentos.com  
www.cpcinstrumentos.com  
Distributor

### Corrosion Specialties Inc.

2221 Northmont Parkway Suite 200  
Duluth, GA 30096  
**Contact:** Matt Steinmann  
**Phone:** 770-938-7263  
msteinmann@corrosionspec.com  
www.corrosionspec.com  
Distributor

### Crawler

2354 North Lindberg Blvd.  
St. Louis, MO 63114  
**Contact:** Mark Chick  
**Phone:** 314-428-4804  
mark@crawlerusa.com  
www.crawlerusa.com  
Manufacturer

### CS Unitec, Inc.

22 Harbor Avenue  
Norwalk, CT 06850  
**Contact:** Kathy Delaney  
**Phone:** 203-853-9522  
www.csunitec.com  
Manufacturer

### Cygnus Instruments, Inc.

6900 Philips Hwy, Suite 8  
Jacksonville, FL 32216  
**Contact:** Rod Sanders  
**Phone:** 410-267-9771  
sales@cygnusinstruments.com  
www.cygnusinstruments.com  
Distributor

## D

### Dawson-Macdonald Company

845 Woburn Street  
Wilmington, MA 01887  
**Contact:** Mike Stygles  
**Phone:** 978-988-8034  
info@dawson-macdonald.com  
www.dawson-macdonald.com  
Distributor

### DeFelsko Corporation

800 Proctor Ave.  
Ogdensburg, NY 13669  
**Contact:** Terry LaRue  
**Phone:** 315-393-4450  
techsales@defelsko.com  
www.defelsko.com  
Manufacturer

### DeHumidification Technologies, LP

6609 Avenue U  
Houston, TX 77011  
**Contact:** Brian Battle  
**Phone:** 713-939-1166  
bbattle@rentdh.com  
www.rentdh.com  
Rental Company

### Dehumidifiers, Sales and Consulting, Inc.

4319 Brook Shadow Dr.  
Kingwood, TX 77345  
**Contact:** Don Bechtol  
**Phone:** 713-249-1615  
dbechtol@dhsalesandconsulting.com  
www.dhsalesandconsulting.com  
Distributor

### Desco Mfg. Co., Inc.

23031 Arroyo Vista  
Rancho Santa Margarita, CA 92688  
**Contact:** Ralph Fabian  
**Phone:** 800-337-2648  
info@descomfg.com  
www.descomfg.com  
Manufacturer

### Desmond Mfg. Co.

PO Box 30  
Urbana, OH 43078  
**Contact:** Robert McConnell  
**Phone:** 937-653-7181  
desmondmfg@ctcn.net  
www.swirlloff.com  
Manufacturer

### Detroit Tarp, Inc.

6760 Metroplex Dr.  
Romulus, MI 48174  
**Contact:** Dennis Trezona  
**Phone:** 800-457-5054  
dennistrezona@hotmail.com  
www.detroittarp.com  
Manufacturer

### DevWave Software Inc

PO Box 28031  
Victoria, BC V9B 6K8 Canada  
**Contact:** Michael Brown  
**Phone:** 888-739-4033  
sales@devwave.com  
www.devwave.com  
Manufacturer

### Diamond Scaffold

2355 Hurricane Bay Dr.  
Semmes, AL 36575

### Dickson Industries, Inc.

PO Box 684  
Tecumseh, OK 74873  
**Contact:** Wayne Dickson  
**Phone:** 405-598-6547  
dicksonparts@aol.com  
www.roadproonline.com  
Manufacturer

### Diedrich Technologies Inc.

310 Wayto Road  
Schenectady, NY 12303  
**Contact:** Ken Eglin  
**Phone:** 800-283-3888  
moreinfo@sandellmfg.com  
www.diedrichtechnologies.com  
Manufacturer

### Dispensing Technology Corporation

5500 Adolfo Road  
Camarillo, CA 93012  
**Contact:** Todd White  
**Phone:** 805-388-5575  
sales@dispensingtech.com  
www.dispensingtech.com  
Manufacturer

### Doosan Portable Power

1293 Glenway Drive  
Statesville, NC 28625  
**Phone:** 800-633-5206  
portablepowersales@doosan.com  
www.doosanportablepower.com  
Manufacturer

### Draygon LLC

313 Seaboard Avenue  
Venice, FL 34285  
**Contact:** Raymond E. VanKouwenberg  
**Phone:** 585-329-9718  
ray@draygon.com  
draygon.com  
Manufacturer

### Dry Air Technology

1387 Pacific Drive, Suite B  
Burlington, WA 98233  
**Contact:** Lori Buswell  
**Phone:** 360-755-9176  
info@dryairtech.com  
www.dryairtech.com  
Manufacturer

### DryAIR by TDM

52 US Route 1 #2  
Scarborough, ME 04074  
**Contact:** Mark Callahan  
**Phone:** 800-287-1538  
mcallahan@tdmgo.com  
www.tdmgo.com  
Manufacturer

### DuPont Personal Protection

PO Box 27001  
Richmond, VA 23261  
**Contact:** Customer Service  
**Phone:** 800-931-3456  
personalprotection.dupont.com  
www.safespec.dupont.com  
Manufacturer

### Dustless Blasting

5711 Schurmier Rd.  
Houston, TX 77048  
**Contact:** Jacob Gardner  
**Phone:** 800-727-5707  
jacob@mmjl.com  
www.dustlessblasting.com  
Manufacturer

### Dustless Technologies

1285 E. 650 South  
Price, UT 84501  
**Contact:** Cameron Jaccard  
**Phone:** 435-637-5885  
orders@dustlesstools.com  
Dustlesstools.com  
Manufacturer

### DUX Technologies, Inc.

PO Box 1314  
Seahurst, WA 98062  
**Contact:** Brad Rice  
**Phone:** 206-248-0808  
brad.rice@duxtechnologiesinc.com  
www.duxtechnologiesinc.com  
Manufacturer

## E

### Eagle Industrial Equipment, Inc.

230 N. Barrios St.  
Lockport, LA 70374  
**Contact:** Ben Ledet  
**Phone:** 985-532-5700  
bledet@eagleie.com  
www.eagleie.com  
Manufacturer

### Eagle Industries

PO Box 10652  
New Orleans, LA 70123  
**Contact:** Patrick Calvo  
**Phone:** 800-266-8246  
patrick@eagleind.com  
www.eagleind.com  
Manufacturer



**ECSS**

6082 Anna Ct.  
Eastvale, CA 92880  
**Contact:** Eric Villaseñor  
**Phone:** 909-952-0745  
eddycurrentguru@aol.com  
www.eddycurrentandcoatingsales.com  
Distributor

**Eco-Shell, Inc.**

5230 Grange Road  
Corning, CA 96021  
**Contact:** Helen Cantrell  
**Phone:** 530-824-8794  
sales@ecoshell.com  
www.ecoshell.com  
Manufacturer

**ECS North America, LLC**

148 Mill Rock Road East  
Old Saybrook, CT 06475  
**Contact:** Erin Bogan  
**Phone:** 860-395-4760  
erin@ecson.com  
www.ecson.com  
Rental Company

**Elcometer (Asia) Pte Ltd**

896 Dunearn Road, Tuan Sing Bldg., #03-09  
Singapore, 589472 Singapore  
**Contact:** Andy Foo  
**Phone:** 656-462-2822  
andy@elcometer.com.sg /  
jerry.tan@elcometer.com.sg  
www.elcometer.com.sg  
Distributor

**Elcometer, Inc.**

6900 Miller Drive  
Warren, MI 48092  
**Contact:** Sunny Nietubicz  
**Phone:** 800-521-0635  
sales@elcometerusa.com  
www.elcometerusa.com  
Manufacturer / Distributor

**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  
Manufacturer / Distributor

**EnDiSys**

14329 Northdale Blvd.  
Rogers, MN 55374  
**Contact:** Scott L. Striggow  
**Phone:** 763-428-5075  
scottstriggow@endisys.com  
www.endisys.com  
Manufacturer / Distributor

**ENMET**

680 Fairfield Ct.  
Ann Arbor, MI 48108  
**Contact:** ENMET Customer Service  
**Phone:** 800-521-2978  
rkelly@enmet.com  
www.enmet.com  
Manufacturer

**Ensio Resources, Inc.**

431 River Road  
Bow, NH 03304  
**Contact:** Krissy Ordeshook  
**Phone:** 603-224-0221  
krissy@ensioresources.com  
ensioresources.com  
Manufacturer / Distributor

**EnTech Industries**

1109 10th St. NE  
East Grand Forks, MN 56721  
**Contact:** Mark LaPlante  
**Phone:** 218-773-6602  
mark@entechindustries.com  
www.entechindustries.com  
Manufacturer

**Envirosafe Stripping Inc.**

785 Arch Street  
Carnegie, PA 15106  
**Contact:** Mike Vorel  
envirosafeindustrial@verizon.net  
envirosafeindustrial.com  
Manufacturer

**EPIC Supply, LLC**

45 Whitestone Lane  
Lancaster, NY 140861425

**Ervin Industries, Inc.**

3893 Research Park Dr.  
Ann Arbor, MI 48106  
**Contact:** Joe McGreal  
**Phone:** 800-748-0055  
jmcgreal@ervinindustries.com  
www.ervinindustries.com  
Manufacturer

**ESCA Blast**

1330 Industry Road  
Hatfield, PA 19440  
**Contact:** Ed Swayze  
**Phone:** 215-723-9000  
www.escablast.com  
Distributor / Rental Company

**Everblast Inc.**

820 McArdle Drive, Unit C  
Crystal Lake, IL 60014  
**Contact:** Chris Hindley  
**Phone:** 815-788-8660  
sales@everblast.com  
www.everblast.com  
Manufacturer

**ExakTime**

27001 Agoura Rd. Suite 280  
Calabasas, CA 91301  
**Contact:** Anthony Alexandre  
**Phone:** 818-334-2576  
anthony.alexandre@exaktime.com  
www.exaktime.com  
Manufacturer

**F****Fischer Instruments S.A.**

Pallars, 99 Oficina No. 4  
Barcelona, 08018 Spain  
**Contact:** spain@helmutfischer.com  
**Phone:** 34-93-309-7916  
Distributor

**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  
Manufacturer

**Flashlights Unlimited**

416 Mapmaker Ln.  
Savannah, GA 31410  
**Contact:** Floyd Hacker  
**Phone:** 912-999-6378  
floyd@flashlightsunlimited.com  
flashlightsunlimited.com  
Manufacturer / Distributor

**Flat Rock Bagging**

27938 Cooke St.  
Flat Rock, MI 48134  
**Contact:** Mike Simonetti  
**Phone:** 734-782-2073  
mikesim@flatrockbagging.com  
www.flatrockbagging.com  
Manufacturer / Distributor

**Flexible Lifeline Systems**

14325 West Hardy Rd.  
Houston, TX 77060  
**Contact:** Sales  
**Phone:** 832-448-2900  
info@flexiblelifeline.com  
www.flexiblelifeline.com  
Manufacturer

**Floorex Products**

11-13 Jennings Road  
Swan Hill, 03585 Australia  
**Contact:** Sales Team  
**Phone:** 61-3-5036-4000  
sales@floorex.com.au  
www.floorex.com  
Manufacturer

**Franmar**

PO Box 5565  
Bloomington, IL 61701  
**Contact:** Customer Service  
**Phone:** 800-538-5069  
custserv@franmar.com  
www.franmar.com  
Manufacturer / Distributor

**Friess Equipment, Inc.**

2222 Akron-Peninsula Rd.  
Akron, OH 44313  
**Contact:** Jim Friess  
**Phone:** 330-945-9440  
friessequipment@sbcglobal.net  
Manufacturer / Distributor

**FROHN North America Inc.**

6170 Hotel Street  
Austell, GA 30106  
**Contact:** Jed Palmer  
**Phone:** 877-362-7336  
jed.palmer@frohn.us  
www.frohn.com  
Manufacturer

**FS Solutions**

1144 Expressway Drive South  
Toledo, OH 43608  
**Contact:** Craig Aspinall / David Brown  
**Phone:** 888-415-4368  
rentals@fssolutionsgroup.com  
www.fssolutionsgroup.com  
Rental Company

**Full Circle International Inc.**

3860 County Road 40 NW  
Garfield, MN 56332  
**Contact:** Ira Thomas  
**Phone:** 952-545-2401  
ira@fullcircleinternational.com  
www.fullcircleinternational.com  
Manufacturer

**G****GAL Power Systems Toronto**

217 Statesman Drive  
Mississauga, ON L5S 1X4 Canada  
**Contact:** Dustin Hubert  
**Phone:** 855-563-7847  
d.hubert@galpower.com  
www.galpower.com  
Rental Company

**Galeton Gloves and Safety Products**

PO Box 336  
Mansfield, MA 02048  
**Contact:** Bill Forbes  
**Phone:** 800-221-0570  
www.galeton.com  
Distributor

**GapVax Inc.**

575 Central Avenue  
Johnstown, PA 15902  
**Contact:** Matt Hughes  
**Phone:** 814-535-6766  
mhughes@gapvax.com  
www.gapvax.com  
Manufacturer

**Garnet International Resources Pty. Ltd.**

Hampden Court 186-190, Hampden Road  
Nedlands WA, 06909 Australia  
**Contact:** Aaron Williams  
**Phone:** 61-893-89-8560  
scclare@garnetsales.com  
www.garnetsales.com

**GBS Scaffolding and Services Corp.**

38750 Webb Dr., Ste. 100  
Westland, MI 48185  
**Contact:** Steve Fenske  
**Phone:** 888-868-1062  
gbsscaffolding@gmail.com  
www.gbsscaffolding.com  
Manufacturer / Distributor / Rental Company

**General Equipment Company**

620 Alexander Drive SW  
Owatonna, MN 55060  
**Contact:** Sales Department  
**Phone:** 800-533-0524  
general@generalequip.com  
www.generalequip.com  
Manufacturer

**General Lasertronics Corporation**

830 Jury Court, Suite 5  
San Jose, CA 95112  
**Phone:** 408-947-1181  
info@lasertronics.com  
www.lasertronics.com  
Manufacturer

**General Pump**

1174 Northland Drive  
Mendota Heights, MN 55120  
**Contact:** Joe Campbell  
**Phone:** 888-474-5487  
sales@gpcompanies.com  
www.generalpump.com  
Manufacturer

**Glenn Saren & Assoc. Inc.**

8460 NW 52nd Pl.  
Coral Springs, FL 33067  
**Contact:** Glenn Saren  
**Phone:** 305-613-9323  
gesaren@aol.com  
www.GlennSarenAssoc.net

**GLOBAL Encasement, Inc.**

701 E. Santa Clara St.  
Ventura, CA 93001-5972  
**Contact:** George C. Keefe  
**Phone:** 800-266-3982  
service@encasement.com  
www.encasement.com  
Manufacturer

**GMA Garnet (Europe) GmbH UK Office**

P.O. Box 9  
Middlewich, CW10 9FD United Kingdom  
**Contact:** Mike Crowe  
**Phone:** 773-863-8966  
sales@gmagarnet.co.uk  
www.gmagarnet.co.uk  
Manufacturer

**Goff, Inc.**  
12216 NS 3520  
Seminole, OK 74868  
**Contact:** David Zehren  
**Phone:** 405-278-6200  
goff@goff-inc.com  
www.goff-inc.com  
Manufacturer

**Graco Inc.**  
88 11th Ave. NE  
Minneapolis, MN 55413  
**Contact:** Courtney Beall  
**Phone:** 866-361-5959  
courtney\_a\_beall@graco.com  
www.graco.com  
Manufacturer

**Greener Blast Technologies, Inc.**  
73 Progress Ave.  
Tyngsboro, MA 01879  
**Contact:** Bob Nash  
**Phone:** 978-649-5300  
info@greenerblast.com  
www.greenerblast.com  
Manufacturer

**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  
Manufacturer / Distributor

**Guzzler Manufacturing**  
1621 S. Illinois Street  
Streator, IL 61364  
**Contact:** Nick Bruhn  
**Phone:** 815-672-3171  
sales@guzzler.com  
www.guzzler.com  
Manufacturer

## H

**Hammelmann Corp.**  
436 Southpointe  
Miamisburg, OH 45342  
**Contact:** Ray Oetzel  
**Phone:** 937-859-8777  
mail@hammelmann.com  
www.hammelmann.com  
Manufacturer

**Hammelmann GmbH**  
Carl-Zeiss-Str. 6-8  
Oelde, 59302 Germany  
**Contact:** Matthias Knoedler  
**Phone:** (49) 252-2760  
sales@hammelmann.de  
hammelmann.com  
Manufacturer

**Harsco Minerals**  
350 Popular Church Road  
Camp Hill, PA 17010  
**Contact:** Customer Service  
**Phone:** 888-733-3646  
reedcs@harsco.com  
www.blackbeautyabrasives.com  
Manufacturer

**Hawk Research Labs**  
780 A.E.C. Drive  
Wood Dale, IL 60191  
**Phone:** 630-227-0050

**HERO Products Group a division of I.C.T.C. Holdings Corp.**  
720 Eaton Way  
Delta, BC V3M 6J9 Canada  
**Contact:** Steve Babins  
**Phone:** 604-523-3080  
sbabins@hero.ca  
www.hero.ca  
Manufacturer

**Hertz Equipment Rental**  
74-591 Honokohau St.  
Kailua-Kona, HI 96740  
**Contact:** Bobby Marks  
**Phone:** 808-331-1304  
Distributor

**HoldTight Solutions**  
PO Box 27907  
Houston, TX 77227  
**Contact:** Ken Rossy  
**Phone:** 832-633-0430  
ken.rossy@holdtight.com  
www.holdtight.com  
Manufacturer / Distributor

**Honeywell Safety Products**  
900 Douglas Pike  
Smithfield, RI 02917  
**Contact:** Mike Bennett  
**Phone:** 513-703-9486  
michael.bennett2@honeywell.com  
www.honeywellsafety.com  
Manufacturer

**HoverTrowel, Inc.**  
5048 Spruce Lane  
Mohnton, PA 19540  
**Contact:** Drew Fagley  
**Phone:** 610-856-1961  
sales@hovertrowel.com  
www.hovertrowel.com  
Manufacturer

**Hyde Group**  
54 Eastford Road  
Southbridge, MA 01550  
**Contact:** Customer Service  
**Phone:** 800-872-4933  
custrelations@hydetools.com  
www.hydetools.com  
Manufacturer

## I

**IBIX North America, Surface Tech. LLC**  
2075 Lake Ave. SE  
Largo, FL 33771  
**Contact:** Sales  
**Phone:** 727-322-4611  
sales@ibixusa.com  
www.ibixusa.com  
Manufacturer / Distributor

**ICM - International Climbing Machines**  
630 Elmira Road  
Ithaca, NY 14850  
**Contact:** Samuel Maggio  
**Phone:** 607-288-4001  
info@icm.cc  
www.icm.cc  
Manufacturer

**IDS Blast**  
2717 Tobey Dr.  
Indianapolis, IN 46219  
**Contact:** John Heinzelman  
**Phone:** 800-800-0665  
johnh@idsblast.com  
www.idsblast.com  
Distributor

**INDCO, Inc.**  
4040 Earnings Way  
New Albany, IN 47150  
**Contact:** Tricia Thien  
**Phone:** 800-942-4383  
info@indco.com  
www.indco.com  
Manufacturer

**Indian Valley Industries, Inc.**  
5 Pine Camp Drive  
Binghamton, NY 13904  
**Contact:** Cord Pennell  
**Phone:** 607-240-8407  
cpennell@iviindustries.com  
www.ivindustries.com  
Manufacturer

**Industrial Vacuum Equipment Corp.**  
N8150 Maple Street  
Ixonia, WI 53036  
**Contact:** Randy Bourdo  
**Phone:** 800-331-4832  
randy@industrialvacuum.com  
www.industrialvacuum.com  
Manufacturer

**Innovative Reach**  
5505 Twin Knolls Dr  
Cedar Rapids, IA 52411  
**Contact:** Philip Koch  
**Phone:** 319-573-3488  
philip@innovativereach.com  
www.innovativereach.com  
Rental Company

## J

**Jadalc**  
Calle los Nazcas, N 231 Urb. Maranga San Miguel  
Lima, L-32 Peru  
**Contact:** Jose Antonio De Amat Lacotera  
**Phone:** 99-997-6634  
deamat@waterjetting.com.pe  
www.waterjetting.com.pe  
Distributor

**James Instruments Inc.**  
3727 N. Kedzie Ave.  
Chicago, IL 60618  
**Contact:** Michael W. Hoag  
**Phone:** 773-463-6565  
773-463-6565  
www.ndtjames.com  
Manufacturer

**Jenny Products, Inc.**  
850 North Pleasant Ave.  
Somerset, PA 15501  
**Contact:** Dan Leiss  
**Phone:** 888-425-3669  
info@jennyproductsinc.com  
www.jennyproductsinc.com  
Manufacturer

**Jet Edge**  
12070 43rd St. NE  
St. Michael, MN 55376  
**Contact:** Barb Trushenski  
**Phone:** 763-497-8700  
sales@jetedge.com  
www.jetedge.com  
Manufacturer

**Jetstream of Houston**  
5905 Thomas Road  
Houston, TX 77041  
**Contact:** Ron Felts  
**Phone:** 832-590-1300  
sales@waterblast.com  
www.waterblast.com  
Manufacturer

**Jollyflex USA**  
11927 Windfern Road  
Houston, TX 77064  
**Contact:** Bryan Borg  
**Phone:** 832-962-5200  
sales@jollyflexusa.com  
www.jollyflexusa.com  
Manufacturer

**Jon-Don**  
400 Medinah Rd  
Roselle, IL 60172  
**Contact:** Ryan Donaldson  
**Phone:** 847-278-2695  
Customerservice@juldertinc.com  
www.juldertinc.com  
Distributor / Rental Company

**Julbert, Inc.**  
476 Shannon Lane  
Priest River, ID 83856  
**Contact:** Robert Huere  
**Phone:** 208-448-4440  
Customerservice@julbertinc.com  
www.julbertinc.com  
Manufacturer / Distributor / Rental Company

## K

**Kee Safety, Inc.**  
100 Stradtman Street  
Buffalo, NY 14206  
**Contact:** Darleen Eylers  
**Phone:** 716-896-4949  
info@keesafety.com  
www.KeeSafety.com  
Manufacturer

**Kennametal Inc.**  
2879 Aero Park Drive  
Traverse City, MI 49686  
**Contact:** Customer Service  
**Phone:** 800-662-2131  
k-trvr.service@kennametal.com  
www.kennametal.com  
Manufacturer

**Kraft Tool Co.**  
8325 Hedge Lane Terrace  
Shawnee, KS 66227  
**Phone:** 913-422-4848  
steve@krafttool.com  
www.krafttool.com  
Manufacturer

**KS International, Inc.**  
PO Box 8835  
Greenville, SC 29604  
**Contact:** Nancy Hamilton  
**Phone:** 864-370-9744  
cleansafe@dropcloth.com  
www.dropcloth.com  
Distributor

**KTA-Tator, Inc.**  
115 Technology Drive  
Pittsburgh, PA 15275  
**Contact:** Matt Fajt  
**Phone:** 412-788-1300  
mfajt@kta.com  
www.ktagage.com  
Distributor



## L

**Lesoon Equipment Pte. Ltd.**  
81, Tuas South Street 5  
Singapore, 637651 Singapore  
**Contact:** Leow Kim Hock  
**Phone:** 65-67902900  
enquiry@lesoon.com.sg  
www.lesoon.com.sg  
Manufacturer / Distributor

**Lignomat USA Ltd**  
14345 NE Morris Ct.  
Portland, OR 97230  
**Contact:** Grete Heimerdinger  
**Phone:** 800-227-2105  
sales@lignomat.com  
www.lignomat.com  
Manufacturer

**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  
Manufacturer

**LPI Incorporated**  
4404 Anderson Drive  
Eau Claire, WI 54703  
**Contact:** Ardy Robertson  
**Phone:** 800-657-6956  
sales@lpi-inc.com  
www.lpi-inc.com  
Manufacturer

**LS Industries, Inc.**  
710 E. 17th  
Wichita, KS 67214  
**Contact:** Lisa Hargrove  
**Phone:** 316-265-7997  
sales@lsindustries.com  
www.lsindustries.com  
Manufacturer

**LUCO**  
420 S. Fulton Ave.  
Mt. Vernon, NY 10553  
**Contact:** Bill / Leigh  
**Phone:** 914-664-8701  
uhlfelder@aol.com  
www.uhlfelder-goldleaf.com  
Distributor

## M

**M&W Shops Inc./ Multi-Vac**  
21209 Durand Ave.  
Union Grove, WI 53182  
**Contact:** Michael Griffiths  
**Phone:** 262-876-4220  
sales@multivacinc.com  
www.multivacinc.com  
Manufacturer

**Magnolia Brush**  
1001 N. Cedar ST  
Clarksville, TX 75426  
**Contact:** Glenn Guyette  
**Phone:** 800-248-2261  
sales@magnoliabrush.com  
www.magnoliabrush.com  
Manufacturer

**Manus Abrasive Systems, Inc. / Mod-U-Blast Mfg.**  
1040 - 78 Avenue  
Edmonton, AB T6P 1L7 Canada  
**Contact:** Robin T. MacLean  
**Phone:** 780-468-2588  
macleanr@manusabrasive.com  
www.modublast.com  
Manufacturer / Distributor / Rental Company

**Marco**  
3425 East Locust Street  
Davenport, IA 52803  
**Contact:** Marco  
**Phone:** 800-252-7848  
sales@marco.us  
www.marco.us  
Manufacturer / Distributor / Rental Company

**The Marindus Company, Inc.**  
PO Box 663  
Englewood, NJ 07631  
**Contact:** Jim Vann  
**Phone:** 201-567-8383  
info@marindusco.com  
www.marindusco.com  
Manufacturer / Distributor / Rental Company

**McClung-Logan Equipment Co.**  
4601 Washington Blvd.  
Baltimore, MD 21227  
**Contact:** James Reid  
**Phone:** 401-242-6500  
jreid@mcclung-logan.com  
www.mcclung-logan.com  
Distributor

**MES Rentals**  
32128 Broken Branch Circle  
Spanish Fort, AL 36527  
**Contact:** Chris Keenan  
**Phone:** 888-281-2643  
sales@mesrentals.com  
www.mesrentals.com  
Manufacturer / Distributor / Rental Company

**Metal Samples**  
152 Metal Samples Rd.  
Munford, AL 36268  
**Contact:** Brenda Smith  
**Phone:** 256-358-4202  
msc@alspi.com  
www.metalsamples.com  
Manufacturer

**Michigan Ladder Co.**  
12 East Forest Avenue P.O. Box 981307  
Ypsilanti, MI 48198  
**Contact:** Bob Hoernschemeyer  
**Phone:** 734-482-5946  
bobh@michiganladder.com  
www.michiganladder.com  
Manufacturer

**Michigan Power Cleaning**  
2101 Palmer  
Kalamazoo, MI 49001  
**Contact:** Bryon Bechtold  
bryonbechtold@gmail.com  
michiganpowercleaning.com

**Midwest Mobile Waterjet**  
555 Bardge Channel Road  
Saint Paul, MN 55104  
**Contact:** Brian Gleeson  
**Phone:** 651-755-7089  
bgleeson@mmwaterjet.com  
www.mmwaterjet.com  
Manufacturer

**Mi-T-M Corporation**  
50 Mi-T-M Dr.  
Peosta, IA 52068  
**Contact:** Don Holdridge  
**Phone:** 800-553-9053  
corp@mitm.com  
www.mitm.com  
Manufacturer

**Montipower, Inc.**  
7677 Coppermine Dr.  
Mannassas, VA 20109  
**Contact:** Charles Lockard  
**Phone:** 703-396-8777  
clockard@mbxit.com  
www.mbxit.com  
Distributor

**Mr. LongArm, Inc.**  
400 Walnut, PO Box 377  
Greenwood, MO 64034  
**Contact:** Customer Service  
**Phone:** 816-537-6777  
info@mrlongarm.com  
www.mrlongarm.com  
Manufacturer

**MST, Inc. (Modern Safety Techniques)**  
11370 Breininger Rd., PO Box 87  
Hicksville, OH 43526  
**Phone:** 800-542-6646  
sales@modsafe.com  
www.modsafe.com  
Manufacturer

**Mule-Hide Products Company**  
1195 Prince Hall Drive  
Beloit, WI 53511  
**Phone:** 800-786-1492  
www.mulehide.com  
Manufacturer

**Munters Corporation**  
79 Monroe Street  
Amesbury, MA 01913  
**Contact:** Courtney Tyler  
**Phone:** 978-241-1100  
dhinfo@munters.com  
www.munters.com  
Manufacturer

## N

**N.T. Ruddock Co.**  
26123 Broadway Ave.  
Cleveland, OH 44146  
**Contact:** Jim Ruddock  
**Phone:** 440-439-4976  
sales@ntruddock.com  
www.ntruddock.com  
Distributor

**National Concrete Accessories**  
172 Bethridge Road  
Toronto, ON M9W1N3 Canada  
**Contact:** Steve Kekewich  
**Phone:** 416-245-4720  
sales@nca.ca  
www.nca.ca  
Manufacturer / Distributor

**Nationwide Overspray**  
P.O. Box 810513  
Dallas, TX 75381  
**Contact:** 972-243-8882  
**Phone:** 180-034-5126  
www.nationwideoverspray.com  
Distributor

**Natrium Products, Inc.**  
58 Pendleton Street, PO Box 5465  
Cortland, NY 13045  
**Contact:** Tim Herman  
**Phone:** 800-962-4203  
herman@natrium.com  
www.natriumsodablast.com  
Manufacturer

**Naval & Industrial Solutions**  
Parque Lefevre, Panamá  
Panamá, 0830-01920 Panamá  
**Contact:** Jeimy Bernal  
**Phone:** 507-6781-6070  
jeimy.bernal@nainso.com  
www.nainso.com  
Distributor

**Nelson Industrial Services**  
6021 Melrose Lane  
Oklahoma City, OK 73127  
**Contact:** Paul Jackson  
**Phone:** 405-495-9797  
pjackson@nelsonindustrial.com  
www.nelsonindustrial.com  
Manufacturer

**New England Silica, Inc.**  
1370 John Fitch Boulevard  
South Windsor, CT 06074  
**Contact:** Brian Bellody  
**Phone:** 860-289-7778  
nes1949@aol.com  
www.newenglandsilica.com  
Distributor

**Newborn Brothers**  
8221 Preston Ct., Suite D  
Jessup, MD 20794  
**Contact:** Tyler Hippen  
**Phone:** 301-604-1500  
sales@newborncaulkguns.com  
www.newborncaulkguns.com  
Manufacturer

**NGF Canada Limited**  
Glass Flake Division 255 York Road  
Guelph, ON N1E 3G4 Canada  
**Contact:** Ed Malison  
**Phone:** 519 835 6422  
ed.malison@ngfcanada.com  
www.microglas.com / www.metalshine.com  
Manufacturer

**NLB Corp.**  
29830 Beck Road  
Wixom, MI 48393  
**Contact:** Andrew Chilkiewicz  
**Phone:** 248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com  
Manufacturer / Rental Company

**Nordson EFD**  
40 Catamore Boulevard  
East Providence, RI 02914  
**Contact:** info@nordsonefd.com  
**Phone:** 800-556-3484  
info@nordsonefd.com  
www.nordsonefd.com  
Manufacturer

**Norton Sandblasting Equipment**  
1006 Executive Blvd.  
Chesapeake, VA 23320  
**Contact:** Jason Eisel  
**Phone:** 757-548-4842  
info@nortonsandblasting.com  
www.nortonsandblasting.com  
Distributor / Rental Company

**Novatek Corporation**  
700 Schell Lane  
Phoenixville, PA 19460  
**Contact:** Sales Department  
**Phone:** 610-363-7800  
sales@novatekco.com  
www.novatekco.com  
Manufacturer

**NTI Global**  
50 Willow St.  
Amsterdam, NY 12010  
**Contact:** Sarek Raeburn  
**Phone:** 800-947-7767  
Sarek@ntiglobal.com  
www.ntiglobal.com  
Manufacturer

**Nueces Power Equipment**  
PO Box 4789  
Corpus Christi, TX 78469  
**Contact:** Wes Danklefs  
**Phone:** 361-289-0066  
Distributor

**Nueces Power Equipment**  
5220 Expwy. 281S  
Edinburg, TX 78539  
**Contact:** Edward Dominguez  
**Phone:** 956-702-0066  
ednpowernequip@att.net  
www.nuecespower.com  
Distributor

**Nueces Power Equipment**  
One Industrial Way  
San Benito, TX 78586  
**Contact:** Robert Zohrer  
**Phone:** 956-361-0066  
Distributor

**Nueces Power Equipment**  
8241 S. Desert Blvd.  
Vinton, TX 79821  
**Contact:** Steve Donnelly  
**Phone:** 915-541-0066  
Distributor

**NZ Corrosion Services Ltd.**  
751 Carrington Rd. RD1  
New Plymouth, 04371 New Zealand  
**Contact:** sales@corrosion.co.nz  
**Phone:** 64-6-7581745  
sales@corrosion.co.nz  
www.corrosion.co.nz  
Rental Company

## O

**Oak Ridge Foam and Coating systems/  
Franklin Consulting Services, LLC**  
380 Hill Road  
Hilton, NY 14468  
**Contact:** Rich Franklin  
**Phone:** 585-314-4063  
RFran113@aol.com  
www.oakridgepoly.com  
Manufacturer

**Opti-Blast**  
4032-B N. Jackson  
Jacksonville, TX 75766  
**Contact:** Chris Howard  
**Phone:** 903-589-0452  
choward@optiblast.com  
www.optiblast.com  
Manufacturer

## P

**P&L Metalcrafts, LLC**  
1050 Ohio Works Drive  
Youngstown, OH 44510  
**Contact:** Bill Schrieber  
**Phone:** 330-793-2178  
bill@metalcraftsyng.com  
www.metalcraftsyng.com  
Manufacturer

**Paint Brush Corporation**  
27 West Cherry St., PO Box 371  
Vermillion, SD 57069  
**Contact:** Jill VonEhwegen  
**Phone:** 800-843-9930  
jill@paintbrushcorp.com  
www.paintbrushcorp.com  
Manufacturer

**The Paint Project, Inc.**  
71 West Street  
Medfield, MA 02052  
**Contact:** Bob Zaffino  
**Phone:** 508-359-8003  
bob@paintproject.com  
www.paintproject.com  
Distributor / Rental Company

**Pangborn**  
4630 Coates Drive  
Fairburn, GA 30213  
**Contact:** Greg Bowers  
**Phone:** 800-638-3000  
info@pangborn.com  
www.pangborn.com  
Manufacturer

**Parker Hannifin- Parflex**  
11151 Cash Road  
Stafford, TX 77477  
**Contact:** Dan Terrill  
**Phone:** 281-566-4500  
dan.terril@parker.com  
www.parker.com  
Manufacturer

**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  
Manufacturer / Distributor

**Pellets, LLC**  
63 Industrial Drive  
North Tonawanda, NY 14120  
**Contact:** Mike Deakin  
**Phone:** 716-693-1750  
mdeakin@pelletslc.com  
www.pelletslc.com  
Manufacturer / Distributor

**Persyst Enterprises, Inc.**  
4695 Melvin St.  
Las Vegas, NV 89115  
**Contact:** Mike Lawson  
**Phone:** 702-362-9432  
mike@solvent-recycler.com  
www.solvent-recycler.com  
Manufacturer / Distributor

**Phoenix Equipment**  
4201 Lien Rd.  
Madison, WI 53704  
**Contact:** Keith Hosli  
**Phone:** 608-209-7616  
khsosli@thermastor.com  
usephoenix.com  
Manufacturer

**Pinnacle Central Co.**  
103 Bryan St.  
Jacksonville, FL 32202  
**Contact:** Billy Porter  
**Phone:** 904-354-5746  
info@pinnaclecentral.com  
www.pinnaclecentral.com  
Distributor / Rental Company

**Pipeline Inspection Company**  
1919 Antoine Dr  
Houston, TX 77055  
**Contact:** Ashlee Rogers  
**Phone:** 713-681-5837  
sales@picltd.com  
www.picltd.com  
Manufacturer / Distributor / Rental Company

**Pirate Brand**  
2719 Tobey Dr.  
Indianapolis, IN 46219  
**Contact:** Dave Miller  
**Phone:** 800-692-6223  
sales@forecastsalesinc.com  
www.pirate-brand.com/  
Manufacturer

**Polygon US Corporation**  
15 Sharpners Pond Road, Building F  
North Andover, MA 01845  
**Contact:** Summer Street  
**Phone:** 800-422-6379  
summer.street@polygongroup.com  
www.polygongroup.us  
Rental Company

**Porter Warner Industries**  
2 East 38th Street  
Chattanooga, TN 37410  
**Contact:** Randy Smith  
**Phone:** 423-266-4735  
alanrandolphsmith@gmail.com  
www.porterwarner.com  
Distributor

**Potters Industries LLC**  
Malvern, PA 19355  
**Contact:** Mark Shinnars  
**Phone:** 610-651-4652  
mark.shinnars@pottersbeads.com  
www.pottersbeads.com  
Manufacturer

**PreTox Products - NexTec, Inc.**  
4050 Westmark Dr.  
Dubuque, IA 52002  
**Contact:** Dave Steffen  
**Phone:** 800-338-8296  
daves@prettox.com  
www.prettox.com  
Manufacturer

**Pro-Tect Plastic and Supply, Inc.**  
PO Box 1377  
Jacksonville, OR 97530  
**Contact:** Sharri Griffin  
**Phone:** 800-889-9727  
sales@pro-TECT.net  
www.shrinkwrapcontainments.com  
Distributor

**Pro-Tect Services, Inc.**  
12235 Hwy. 105 East  
Conroe, TX 77305  
**Contact:** Steve Scott  
**Phone:** 713-589-4638  
sales@pro-TECTservices.com  
www.pro-TECTservices.com  
Distributor / Rental Company

**PTQ Safety**  
8302 Almeda Genoa  
Houston, TX 77075  
**Contact:** Julie Todd  
**Phone:** 713-504-8546  
julie@ptqsafety.com  
www.ptqsafety.com  
Manufacturer

**Pure Safety Group**  
600 E. Sam Houston Parkway S.  
Pasadena, TX 77503  
**Contact:** Tony Coco  
**Phone:** 800-466-6385  
info@puresafetygroup.com  
www.puresafetygroup.com  
dealer/distributor

## Q

**Q-Lab Corporation**  
800 Canterbury Road  
Westlake, OH 44145  
**Contact:** James Gauntner  
**Phone:** 440-835-8700  
info@q-lab.com  
www.q-lab.com  
Manufacturer

**Quikspray, Inc.**  
PO Box 327  
Port Clinton, OH 43452  
**Contact:** Leah Barker  
**Phone:** 419-732-2611  
leah@quikspray.com  
www.quikspray.com  
Manufacturer

## R

**Radians, Inc.**  
5305 Distriplex Farms Drive  
Memphis, TN 38141  
**Contact:** Jon Smith  
**Phone:** 877-723-4267  
sales@radians.com  
www.radians.com  
Manufacturer

**Rapid Prep, LLC**  
44 Cross Park Ave.  
North Kingstown, RI 02852  
**Contact:** Mike Hogue  
**Phone:** 877-529-2124  
sales@rapidprep.com  
www.rapidprep.com  
Distributor / Rental Company

**RBW Enterprises, Inc.**  
136 Hillwood Circle  
Newnan, GA 30263  
**Contact:** John Vogel or Steve Meyers  
**Phone:** 770-251-8989  
jvogel@rbwe.com  
www.rbwe.com  
Manufacturer

**RCG America**  
24624 North Interstate 45, Suite 200  
Spring, TX 77386  
**Contact:** Scott Trom  
**Phone:** 832-871-7515  
strom@glassox.com  
www.glassox.com  
Manufacturer



**Remote Orbital Installations, LLC**

429 Venture Court  
Verona, WI 53593  
**Contact:** Michael Kronz  
**Phone:** 608-845-0360  
mkronz@roi360.com  
www.roi360.com  
Manufacturer

**Resource West**

2245 Colex Drive  
Grand Junction, CO 81505  
**Contact:** Randall Jochim  
**Phone:** 970-245-7104  
michelle@resourcewest.com  
www.resourcewest.com  
Manufacturer

**Ring Power Corporation**

500 World Commerce Parkway  
St. Augustine, FL 32092  
**Contact:** Micah Hughes  
**Phone:** 904-494-1285  
aircompressor@ringpower.com  
www.compressedair.ringpower.com  
Distributor / Rental Company

**Robovent**

37900 Mound Rd.  
Sterling Heights, MI 48310  
**Contact:** Trevor Hewitt  
**Phone:** 248-275-3480  
trevor.hewitt@robovent.com  
www.robovent.com  
Manufacturer

**Ronco Protective Products**

70 Planchet Road  
Concord, ON L4K 2C7 Canada  
**Contact:** Vani Kshattriya  
**Phone:** 905-660-6700  
contactus@roncosafety.com  
www.roncosafety.com  
Manufacturer

**RPB Safety**

2807 Samoset Road  
Royal Oak, MI 48073  
**Contact:** Kurt Ivory  
**Phone:** 866-494-4599  
kurt.ivory@rpbafety.com  
www.rpbafety.com  
Manufacturer

**S****Sabre Autonomous Solutions**

291 Milperra Road  
Sydney, 02212 Australia  
**Contact:** Damian Williams  
**Phone:** 61-29-792-2733  
damian@sabreautonomous.com.au  
www.sabreautonomous.com.au  
Manufacturer

**SAFE Systems, Inc.**

18420 68th Ave S., #202  
Kent, WA 98032  
**Contact:** Glenn Seaverns  
**Phone:** 425-251-8662  
info@safesys.com  
www.safesys.com  
Manufacturer / Rental Company

**Safespan Platform Systems, Inc.**

252 Fillmore Avenue  
Tonawanda, NY 14150  
**Contact:** David Malcolm  
**Phone:** 800-368-4010  
dmalcolm@safespan.com  
www.safespan.com  
Manufacturer / Distributor / Rental Company

**Safety Lamp of Houston**

1816 Rotary Drive  
Humble, TX 77338  
**Contact:** Jim Reeves  
**Phone:** 281-964-1019  
sales@safetylampofhouston.com  
www.safetylampofhouston.com  
Distributor

**Safway Group Holding LLC**

Infrastructure Services Group Scotia-  
Glenville Industrial Park Building 406  
Scotia, NY 12302  
**Contact:** Jerry Dolly  
**Phone:** 518-381-6000  
quikdeck@safway.com  
www.QuikDeck.com  
Manufacturer / Rental Company

**Saint Gobain Specialty Grains & Powders**

1 New Bond Street, M/S 525-203,  
PO Box 15137  
Worcester, MA 01615  
**Contact:** Ed Reitz  
**Phone:** 508-795-2999  
ceramicmaterials@saint-gobain.com  
www.abrasivematerials.saint-gobain.com  
Manufacturer

**Scangrit**

Eastfield Road South Killingholme  
Immingham, DN40 3NF United Kingdom  
**Contact:** Gerry Bourke  
**Phone:** 44-146-957-4715  
sales@scangrit.co.uk  
www.scangrit.co.uk  
Manufacturer / Distributor

**Sea to Sky Innovations Ltd**

Unit 204, 6741 Cariboo Road  
Burnaby, BC V3N 4A3 Canada  
**Contact:** Graham Sims  
**Phone:** 604-420-7707  
gsims@socomore.com  
www.sea2skyglobal.com  
Manufacturer

**SEMicro Div., M.E. Taylor Engr. Inc.**

15817 Crabbs Branch Way  
Rockville, MD 20855  
**Contact:** Kellie Taylor  
**Phone:** 301-975-9798  
sales@semicro.org  
www.adhesiontesting.com  
Manufacturer / Rental Company

**Shanghai Shengchang Industry Equipment Co., Ltd.**

#58, Lane 7224, Hunan Rd., Pudong  
Shanghai, 201314 China  
**Contact:** Jinyan  
**Phone:** 86-21-58204865  
info@ssce.cn  
www.ssce.cn  
Manufacturer

**Shur-Line**

4051 South Iowa Ave  
St. Francis, WI 53235  
**Contact:** Peggy Gilliam  
**Phone:** 800-253-7856  
shurline.customerservice@shurline.com  
www.shurline.com  
Manufacturer

**SIBELCO**

Noordhoek 7  
Papendrecht, 3351 LD Netherlands  
**Contact:** Jeroen Keswiel  
**Phone:** 31-85-064-4301  
abrasives@sibelco.com  
www.sibelco.com/markets/abrasives  
Manufacturer / Distributor

**Sierra Machinery, Inc.**

939 Hawkins Blvd.  
El Paso, TX 79915  
**Contact:** Charlie Ward  
**Phone:** 915-772-0613  
www.sierraelpaso.com  
Distributor

**The Singleton Corporation**

3280 W. 67th Place  
Cleveland, OH 44102  
**Contact:** Office  
**Phone:** 216-651-7800  
sales@singletoncorp.com  
www.singletoncorp.com  
Manufacturer

**SJS Equipment LLC**

101 Industrial Park Drive  
Arma, KS 66712  
**Contact:** Sheldon Bicknell  
**Phone:** 620-347-8860  
sheldon@sjsinc.net  
www.sjsinc.net  
Manufacturer

**Sky Climber, LLC**

1800 Pittsburgh Drive  
Delaware, OH 43015  
**Contact:** Todd King  
**Phone:** 740-203-3931  
info@skyclimber.com  
www.skyclimber.com

**Smith Surface-Prep Solutions**

2504 NW 19th Street  
Pompano Beach, FL 33069  
**Contact:** Richard Stankiewicz  
**Phone:** 800-653-9311  
salesteam@smithmfg.com  
www.smithmfg.com  
Manufacturer

**Solvent Kleene, Inc.**

119 Foster St. Bldg. #6  
Peabody, MA 01960  
**Contact:** Bob Sprei  
**Phone:** 978-531-2279  
sales@solventkleene.com  
www.solventkleene.com  
Manufacturer

**Solvent Waste Management, Inc.**

8103 Spring Cypress  
Spring, TX 77379  
**Contact:** Bill Palamountain  
**Phone:** 281-379-3666  
swm@solventwasher.com  
www.solventwasher.com  
Manufacturer

**Southern Equipment Distribution, LLC**

356 FMS Tower Road  
Woodbine, GA 31569  
**Contact:** Shannon Reifsnnyder  
**Phone:** 912-882-7803  
sesdistribution@tds.net  
www.southernequipmentdistribution.com  
Distributor

**Southern Industrial Supply, Inc.**

4216 Westcap Rd  
Whites Creek, TN 37189  
**Contact:** Steven Wadsworth  
**Phone:** 800-202-3820  
office@southern-industrial.com  
www.southern-industrial.com  
Distributor / Rental Company

**Specialty Products, Inc. (SPI)**

2410 104th St. Ct. S., Suite D  
Lakewood, WA 98499  
**Contact:** Chas Weatherford  
**Phone:** 253-588-7101  
info@specialty-products.com  
www.specialty-products.com  
Manufacturer

**Specialty Vacuum Inc.**

4533 Green Park Road  
St. Louis, MO 63123  
**Contact:** Noel Prudent  
**Phone:** 800-448-2801  
vacital@aol.com  
www.specialtyvacuum.com  
Rental Company

**Speed Painting Inc.**

11641 Indian Hill Rd.  
Amarillo, TX 79124  
**Contact:** Dustin and Chrystene Speed  
**Phone:** 806-355-4360  
info@speedpainting.com  
www.speedpaintingtools.com  
Manufacturer

**Spider By BrandSafway**

365 Upland Dr.  
Seattle, WA 98188  
**Phone:** 877-774-3370  
spider@spiderstaging.com  
www.spiderstaging.com

**Spin Import Export**

Calea Ferentari Nr 135  
Bucuresti, 51857 Romania  
**Phone:** 40-722-258552  
office@pardoseli-industriale.com  
www.sisteme-industriale.ro  
Distributor

**Sponge-Jet, Inc.**

14 Patterson Lane  
Newington, NH 03801  
**Contact:** Michael Merritt  
**Phone:** 603-361-7950  
sjadmin@spongejet.com  
www.spongejet.com  
Manufacturer

**Spray Equipment & Service Center**

311 S. Pattie St.  
Wichita, KS 67211  
**Contact:** John Goodman  
www.sprayequipment.com

**Spray Pump Services, LLC**

719 East Pearce St.  
Baytown, TX 77520  
**Contact:** Jason Lemon  
jason@spraypumpservices.com  
www.spraypumpservices.com  
Distributor / Rental Company

**Spraytech, Inc., Global Spray Solutions**

15179 West Hwy 54  
Wichita, KS 67235  
**Contact:** Dave Calvin  
**Phone:** 316-943-3700  
dcalvin@globalspray.com  
www.globalspray.com  
Manufacturer

### Starblast Abrasives - by Chemours

5222 Treat Road  
Starke, FL 32091  
**Contact:** Jessica Stacy  
**Phone:** 904-964-1326  
minerals@chemours.com  
www.chemoursabrasives.com  
Manufacturer

### Stone Tucker Instruments Inc.

51 Scott Street West  
St. Catharines, ON L2R 1E2 Canada  
**Contact:** Tyler Heywood  
**Phone:** 905-688-5800  
info@stone-tucker.com  
www.stone-tucker.com  
Distributor

### Strategic Materials Inc.

17220 Katy Freeway  
Houston, TX 77094  
**Contact:** Sales  
**Phone:** 866-775-6226  
abrasives@strategicmaterials.com  
www.truabrasives.com  
Manufacturer

### Sullivan-Palatek, Inc.

1201 W US Hwy 20  
Michigan City, IN 46360  
**Contact:** Tom Viskniskki  
**Phone:** 219-874-2497  
tviskniskki@palatek.com  
www.sullivan-palatek.com  
Manufacturer

### Sulzer Mixpac

Ruetistrasse 7  
Haag, 09469 Switzerland  
www.sulzer.com  
Manufacturer

### Sulzer Mixpac USA Inc.

8181 Coleman Road  
Haslett, MI 48840  
**Contact:** Kari Holcomb  
**Phone:** 800-822-8114  
ct\_sms\_ame\_sales\_hs@sulzer.com  
www.cox-applicators.com  
Manufacturer

### Sunnyside Corporation / Back To Nature Products

225 Carpenter Avenue  
Wheeling, IL 60090  
**Contact:** Adam Newman  
**Phone:** 847-541-5700  
anewman@sunnysidecorp.com  
www.sunnysidecorp.com  
Manufacturer

### Super Titan Company

8640 Roll Road  
Clarence Center, NY 14032  
**Contact:** Christina M. Gossett  
**Phone:** 716-741-1510  
sales@malyn.com  
www.supertitanparts.com  
Manufacturer

### Surface Jet Inc.

PO Box 9747  
New Iberia, LA 70562  
**Contact:** Jeff Cole  
**Phone:** 504-491-1329

### Surface Prep Supply

#2 U.S. Hwy. 17-92 North  
Haines City, FL 33844  
**Contact:** Derek Newberry  
**Phone:** 863-419-9673  
dnewberry@prepsupply.com  
www.prepsupply.com  
Manufacturer / Distributor / Rental Company

### Surface Preparation-Texas, LLC

5973 South Loop East  
Houston, TX 77033  
**Contact:** Customer Service  
**Phone:** 800-374-4043  
info@surfacepreparation.com  
www.surfacepreparation.com  
Distributor

### SURFACE Worldwide, LLC

561 Keystone Avenue #317  
Reno, NV 89503  
**Contact:** Ron Benson  
**Phone:** 612-338-1377  
info@surfaceprep.com  
www.surfaceprep.com  
Manufacturer

## T

### T Tex Industries LP

8302 Alameda Genoa  
Houston, TX 77075  
**Contact:** Darrell Todd  
**Phone:** 180-036-7730  
sales@ttindustries.com  
www.ttindustries.com  
Distributor

### Target Products Ltd.

9503 87th Ave.  
Morinville, AB T8R 1K6 Canada  
**Contact:** Neil Moore  
**Phone:** 780-939-3033 or 800-575-0500  
nmoore@targetproducts.com  
www.targetproducts.com  
Manufacturer / Distributor

### Tarps Manufacturing, Inc.

1000 State Hwy 104  
Meredosia, IL 62665  
**Contact:** Rich Ott  
**Phone:** 877-584-1900  
irctom@ircgrp.com  
www.tarpsmfg.com  
Manufacturer

### TCR Blast Abrasives

5737 West Park Ave.  
St. Louis, MO 63110  
**Contact:** Keith Gabbard  
**Phone:** 314-241-5333  
keith@tcrcoatings.com  
www.tcrabrasives.com  
Distributor

### Techni-Quip Inc.

256 Wanaque Ave., Ste. 201  
Pompton Lakes, NJ 07442  
**Contact:** Paul Hellen  
**Phone:** 973-835-6500  
blastgrit@gmail.com  
blastgrit.com  
Distributor

### Tennant Coatings

701 North Lilac Drive  
Minneapolis, MN 55440  
**Contact:** Customer Service  
**Phone:** 180-022-8494  
coatings@tennantco.com  
www.tennantcoatings.com  
Manufacturer

### Tennant Coatings

2454 Louisiana Ave. N.  
Golden Valley, MN 55427  
**Contact:** Coatings Sales  
**Phone:** 180-022-8494  
www.tennantcoatings.com  
Manufacturer

### Testex

303 Markus Court  
Newark, DE 19713  
**Contact:** Mary Ellen Stachnik  
**Phone:** 302-731-5693  
mestachnik@testextape.com  
www.testextape.com  
Manufacturer

### Texan Stone LLC

11806 Wilcrest Drive, Suite 202  
Houston, TX 77031  
**Contact:** Mani Palani  
**Phone:** 713-294-4180  
Mani@texanstone.com  
www.texanstone.com  
Distributor

### The TDJ Group, Inc.

18-6 E. Dundee Rd., Suite 100  
Barrington, IL 60010  
**Contact:** James Lively  
**Phone:** 800-252-7869  
tdj@blastox.com  
www.blastox.com  
Manufacturer

### Thermion

PO Box 780  
Silverdale, WA 98383  
**Contact:** Dean Hooks  
**Phone:** 360-692-6469  
dhooks@thermioninc.com  
www.thermioninc.com  
Manufacturer

### TIME Group Inc.

#28 Shangdi West Rd, Haidian District  
Beijing, 100085 China  
**Contact:** Nina  
**Phone:** 86-010-62982299  
export@timegroup.com.cn  
www.tgindt.com  
Manufacturer

### Titan Tool

1770 Fernbrook Lane  
Minneapolis, MN 55447  
**Contact:** Kevin Coleman  
**Phone:** 229-726-6823  
colemank@titantool.com  
www.titantool.com  
Manufacturer / Distributor / Rental Company

### TMS Metalizing Systems, Ltd.

7765 NW Eldorado Blvd #101  
Bremerton, WA 98312  
**Contact:** Dave Wixson  
**Phone:** 360-692-6656  
info@tmsmetalizing.com  
www.tmsmetalizing.com  
Manufacturer / Distributor / Rental Company

### Total Enclosure Sail System, Inc.

7106 Northaven Dr.  
Dallas, TX 75230  
**Contact:** Bret Walton  
**Phone:** 800-724-5710  
bret@sailsystem.com  
www.sailsystem.com  
Manufacturer / Distributor / Rental Company

### Tower Sealants / M-D Building

2095 Memorial Park Rd.  
Gainesville, GA 30504  
**Contact:** Ray Heck  
**Phone:** 405-557-3557  
heckr@mdteam.com  
www.towersealants.com  
Manufacturer

### TQC Sheen

Molenbaan 19  
Capelle aan den IJssel, 2908LL Netherlands  
**Contact:** Esther Krijgman  
**Phone:** 31-10-7900100  
info@tqcsheen.com  
www.tqcsheen.com  
Manufacturer / Distributor

### TQC Sheen USA

3689 Hadley Road  
Metamora, MI 48455  
**Contact:** Joel Bialek  
**Phone:** 810-797-8300  
joel@tqc-usa.com  
www.tqcsheen.com  
Manufacturer / Distributor

### Trask-Decrow Machinery, Inc.

52 U.S. Route 1 #2  
Scarborough, ME 04074  
**Contact:** Mark Callahan  
**Phone:** 800-287-1538  
mcallahan@tdmgo.com  
www.getdryair.com  
Distributor

### Trelawny Surface Preparation

Technology  
13 Highdown Rd., Sydenham Industrial Estate  
Warwickshire, Leamington Spa, CV31 1XT  
United Kingdom  
**Contact:** Kevin Sharrock  
**Phone:** 44-1926-883781  
sales@trelawny.co.uk  
www.trelawny.co.uk  
Manufacturer / Distributor

### Trimaco Inc.

2300 Gateway Centre Blvd., Suite 200  
Morrisville, NC 27560  
**Contact:** Customer Service  
**Phone:** 183-365-5221  
customerservice@trimaco.com  
www.trimaco.com  
Manufacturer

### TriVetro Corporation

150 Nickerson Street Suite 107  
Seattle, WA 98109  
**Contact:** Jeff Freas  
**Phone:** 888-301-0181  
info@trivetro.com  
www.glassabrasive.com  
Manufacturer



**TruQC LLC**

135 West Adams Ave  
Kirkwood, MO 63122  
**Contact:** amy@truqcapp.com  
**Phone:** 314-280-7208

**TST Sweden, AB**

Segloravägen 22  
Kinna, 504 64 Sweden  
**Contact:** Peder Lindström  
**Phone:** 46-320-20-58-72  
peder@tst-sweden.se  
www.tst-sweden.com  
Manufacturer

**Turtle Creek Software**

119 S Cayuga St #304  
Ithaca, NY 14850  
**Contact:** Casey McD  
**Phone:** 607-220-4514  
info@turtlesoft.com  
www.turtlesoft.com  
Manufacturer

**U****Unified Technologies**

3015 Center Dr.  
Cleveland, OH 44134  
**Contact:** Art Koch  
**Phone:** 440-897-5226  
artkoch123@gmail.com  
www.ut-unifiedtechnologies.com  
Distributor

**Unimanix**

2205 Chemin St-Francois  
Dorval, QC H9P 1K3 Canada  
**Contact:** Nazareth Tankarian  
**Phone:** 514-550-0809  
nt@unimanix.com  
www.unimanix.com  
Manufacturer

**Uni-Ram Corporation**

381 Bentley St.  
Markham, ON L3R 9T2 Canada  
**Contact:** Jay Farquharson  
**Phone:** 800-417-9133  
jay@uniram.com  
www.uniram.com  
Manufacturer

**Uni-Royal Pack Co., Ltd.**

3, Soi Pattanakarn 50, Pattanakarn Rd.  
Suanluang, Bangkok, 10250 Thailand  
**Contact:** Tanasit Asawakanoksilp  
**Phone:** 66-2-720-4400  
urpgroup@truemail.co.th  
www.uniroyalpack.com  
Distributor

**United Western Denver**

6201 E. 42nd Ave.  
Denver, CO 80216  
**Phone:** 303-388-1224  
orders@uniwestdenver.com  
unitedwesterndenver.com  
Distributor

**URACA GmbH & Co. KG**

Sirchinger Str. 15  
Bad Urach, 72574 Germany  
**Contact:** Herbert Queiser  
**Phone:** 49-7125-133-0  
h.queiser@uraca.de  
www.uraca.de  
Manufacturer

**US MINERALS**

18635 West Creek Drive  
Tinley Park, IL 60477  
**Contact:** Jason Vukas  
**Phone:** 708-623-1943  
jvukas@us-minerals.com  
www.blackdiamondabrasives.com  
Manufacturer / Distributor

**V****Van Air Systems**

2950 Mechanic St.  
Lake City, PA 16423  
**Contact:** Sales  
**Phone:** 800-840-9906  
info@vanairsystems.com  
www.vanairsystems.com  
Manufacturer

**Vector Technologies Ltd.**

8301 W. Parkland Court  
Milwaukee, WI 53223  
**Contact:** David Mitchell  
**Phone:** 800-832-4010  
inquiry@vector-vacuums.com  
www.vector-vacuums.com  
Manufacturer

**Victory Air & Equipment**

903 Profit Dr.  
Victoria, TX 77901  
**Contact:** Kevin Willis  
**Phone:** 361-573-0819  
kwillis@victory-air.net  
www.victory-air.net  
Distributor

**VitaFlex USA**

1305 Graham Street  
Burlington, NC 27216  
**Contact:** Flora Lin  
**Phone:** 888-616-8848  
sales@vitaflexusa.com  
www.vitaflexusa.com  
Manufacturer

**VLN Advanced Technologies Inc.**

1166 Rainbow Street  
Ottawa, ON K1J 6X7 Canada  
**Contact:** Willie Bloom  
**Phone:** 613-747-0107  
wbloom@vln-tech.com  
www.vln-tech.com  
Manufacturer

**VR Coatings (North America) Ltd.**

648 Welham Road  
Barrie, ON L4N9A1 Canada  
**Contact:** Rachel  
**Phone:** 705-739-0609  
sales@vrcoatingsna.com  
www.vrcoatingsna.com  
Distributor

**VR Coatings Pvt. Ltd.**

J-138, Bhosari Industrial Area, MIDC Bhosari  
Pune, 411026 India  
**Contact:** A A Dighe  
**Phone:** 91-8237086909  
sales@vrcoatings.com  
www.vrcoatings.com  
Manufacturer

**Vulkan Blast Shot Technology**

10 Plant Farm Blvd., Unit 2  
Brantford, ON N3S 7W3 Canada  
**Contact:** Customer Service  
**Phone:** 800-263-7674  
vulkan@vulkanshot.com  
www.vulkanshot.com  
Manufacturer / Distributor

**W****W Abrasives**

1 Abrasive Avenue  
Bedford, VA 24523  
**Contact:** Michael Cagnoli  
**Phone:** 800-207-4691  
contact.united-states@wabrasives.com  
www.wabrasives.com  
Manufacturer

**Wagner Meters**

326 Pine Grove Road  
Rogue River, OR 97537  
**Contact:** Jason Spangler  
**Phone:** 800-634-9961  
sales@wagnermeters.com  
www.wagnermeters.com  
Manufacturer

**Walter S Pratt & Sons Inc.**

317 Columbia St  
Rensselaer, NY 12144  
**Contact:** Wayne Pratt  
**Phone:** 800-613-4738  
waynep@prattandsons.com  
www.prattandsons.com  
Rental Company

**The Warehouse Rentals and Supplies**

1335 S. Main Street  
Greensburg, PA 15601  
**Contact:** Sales Department  
**Phone:** 800-621-2777  
sales@twrs.com  
www.twrs.com  
Manufacturer

**Washington Mills Electro Minerals Corp.**

PO Box 423  
Niagara Falls, NY 14302  
**Contact:** Clint Ronan  
www.washingtonmills.com

**Water Canadianon**

4300 W. Lake Mary Blvd Units 1010-424  
Lake Mary, FL 32746  
**Contact:** Mark Williams  
**Phone:** 800-333-9274  
sales@watercannon.com  
www.watercannon.com  
Distributor

**Wegener Welding LLC**

16W301 S. Frontage Rd.  
Burr Ridge, IL 60527  
**Contact:** Liz Turner  
**Phone:** 630-789-0990  
info@wegenerwelding.com  
www.wegenerwelding.com  
Distributor

**WerkMaster Grinders & Sanders Inc.**

1448 Charlotte Rd.  
North Vancouver, BC V7J 1H2 Canada  
**Contact:** Gord Siddall  
**Phone:** 604-629-8700  
sales@werkmaster.com  
www.werkmaster.com  
Manufacturer

**Westech**

1002 15th Avenue  
Nisku, AB T9E 7S5 Canada  
**Contact:** sales@westechvac.com  
**Phone:** 780-955-3030  
sales@westechvac.com  
www.westechvac.com  
Manufacturer / Distributor

**WIWA LLC**

107 N. Main Street  
Alger, OH 45812  
**Contact:** Caleb Meacham  
**Phone:** 567-674-1907  
sales@wiwalp.com  
www.wiwausa.com  
Manufacturer

**The Wooster Brush Company**

604 Madison Ave., PO Box 6010  
Wooster, OH 44691  
**Contact:** Mary Stark  
**Phone:** 800-392-7246  
customerservice@woosterbrush.com  
www.woosterbrush.com  
Manufacturer

**WorkSite Lighting, LLC**

4109 Murray Ave.  
Haltom City, TX 76117  
**Contact:** bill@worksitelighting.com  
**Phone:** 713-443-9989  
bill@worksitelighting.com  
www.worksitelighting.com  
Manufacturer

**Z****Zibra**

172 Broad Sound Place  
Mooresville, NC 28117  
**Contact:** Mike Sherman  
**Phone:** 704-271-4500  
mikesherman@enjoyzibra.com  
www.enjoyzibra.com  
Manufacturer

**Zip Wall Dust Barrier System**

37 Broadway  
Arlington, MA 02472  
**Contact:** Matt Hete  
**Phone:** 302-344-8988  
info@zipwall.com  
Manufacturer

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## CALENDAR

**JULY 2019**

### SSPC COURSES

Course information available at [sspc.org](http://sspc.org)

<b>July 8-9</b>	C7 Abrasive Blasting, Zephyrhills, FL	<b>July 22-23</b>	C7 Abrasive Blasting, Seattle, WA
<b>July 8-14</b>	PCI Protective Coatings Inspector, Pattaya, Thailand	<b>July 22-25</b>	C3 Lead Paint Removal, National City, CA
<b>July 10-11</b>	C12 Spray Application, Zephyrhills, FL	<b>July 24-25</b>	C12 Spray Application, Seattle, WA
<b>July 15-16</b>	C10 Floor Coatings Basics, Gibsonsia, PA	<b>July 26</b>	C5 Lead Paint Refresher, National City, CA
<b>July 15-19</b>	CCI Concrete Coating Inspector, Houston, TX	<b>July 29-Aug. 4</b>	PCI, Seattle, WA



5

Different types of abrasives used to blast copper test panels in an effort to determine the extent of damage abrasive-blasting causes to thin-gauge metal. See page 9.

## OSHA 29 CFR

The OSHA construction standard that defines what makes a competent person—the individual authorized to make decisions to protect workers and the surrounding environment on a jobsite. See page 13.

\$1,000+

The cost of repair if a rock, screw or other debris enters the fluid section of a coating-application sprayer. A common misconception is that the pump outlet filter will catch that debris, but by the time it gets to the pump outlet filter, it's too late. See page 24.

1–2 inches

The border width of tightly adhering old paint that must be feathered into the prepared bare metal as per the new NAVSEA Standard Item (NSI) 009-32. But does the time and expense of feathering equal better coating performance? See page 18.

154

Individual coating products evaluated in a study to substantiate the belief that coatings containing isocyanates have more stringent PPE requirements than do non-isocyanate-containing coatings. See page 15.

346

The number of companies with products listed in the 2019 Annual Equipment Buying Guide, designed to help industrial coating contractors select various types of equipment for their projects. See page 27.