

## Refreshing JPCL's Online Home

sers of PaintSquare.com, host to JPCL and other coatings-related content, will soon enjoy an updated experience, as the website relaunches this summer.

"For 24 years, PaintSquare.com has been the online hub for the industrial and commercial coatings communities. It has been — and continues to be — where the industry connects," said Andy Folmer, Vice President of Operations at Technology Publishing, the parent company of JPCL and PaintSquare.

"We are excited to share this new evolutionary stage of PaintSquare's development with coatings professionals. The updated, responsive design and easy-to-use navigation will give our audience a top-notch experience on any device, keeping them informed about the latest news, technology, products and best practices in coatings."

The site changes will begin in early July. Some of the new benefits will include:

- Fully-responsive functionality. The same quality content that readers rely on will be in a more accessible format, adapted to all device screens. Enjoy PaintSquare wherever you are on a desktop computer, laptop, tablet or smart phone;
- An expansive navigation bar of offerings organized by active categories such as Watch (videos, webinars), Read (written content, resources), Connect (events, social media, directories) and Grow (opportunities for education, business development and career advancement);
- · Easier ways to find and share content;
- The ability to mark favorites articles, topics, authors, suppliers and more – to save for reference;
- Recommended content curated for you based on your profile and demonstrated interests; and
- New content sponsorships and digital ad programs
  that give suppliers and services a chance to educate and
  inform the PaintSquare audience about their offerings.

The web developers and editors welcome feedback as the site is refined. Send questions and comments to me at clange@paintsquare.com.

## JPCL

JOURNAL OF PROTECTIVE COATINGS & LININGS

#### EDITORIAL

EDITOR-IN-CHIEF

Charles Lange, clange@technologypub.com

TECHNICAL EDITOR

Brian Goldie, bgoldie@jpcleurope.com

MANAGING EDITOR, PUBLICATIONS & SOCIAL MEDIA Haley Carnahan, hcarnahan@technologypub.com

#### EDITORIAL ADVISORY BOARD

Peter Bock, Simon Daly, Robert Ikenberry, Alison Kaelin, Dudley Primeaux, Tom Schwerdt, Gregory "Chip" Stein, Ken Trimber

#### CREATIVE & PRODUCTION

VICE PRESIDENT, CREATIVE & CUSTOM MEDIA
Ashley Pound, apound@technologypub.com

PRODUCTION DESIGN MANAGER

Daniel Yauger, dyauger@technologypub.com

SENIOR WEB DEVELOPER
Rich Mahathey, rmahathey@technologypub.com

CIRCULATION subscriptions@paintsquare.com

#### AD SALES & BUSINESS DEVELOPMENT

BUSINESS DEVELOPMENT MANAGER

Lauren Skrainy, lskrainy@technologypub.com

CLASSIFIED SALES sales@technologypub.com

#### TECHNOLOGY PUBLISHING COMPANY

CHIEF EXECUTIVE & REVENUE OFFICER

Brion D. Palmer, bpalmer@technologypub.com

GENERAL MANAGER, INDUSTRIAL

Andy Folmer, afolmer@technologypub.com

CONTROLLER

Andrew Thomas, athomas@technologypub.com

Periodical class postage at Pittsburgh, PA, and additional mailing offices. The Journal of Protective Coatings & Linings [ISSN 2688-741X (online) ISSN 8755-1985 (print)] is published bimonthly by Technology Publishing Co. The content published in JPCL does not necessarily reflect the views of the editors or the publisher. Reproduction of the contents, either as a whole or in part, is forbidden without express written permission from the publisher. To inquire about reprints or digital copies of articles, email info@paintsquare.com. Subscribe at jpclmag.com/subscribe or contact us at Journal of Protective Coatings and Linings, 1501 Reedsdale St., Ste. 2008, Pittsburgh, PA 15233-2341; tel: 1-800-837-8303 (toll free), 412-431-8300 (direct); fax: 412-431-5428; email: subscriptions@paintsquare.com. Subscription Rates, Print plus Digital Edition: U.S., \$59 per year; outside the U.S., \$100 per year. Digital Edition only: Free to qualified subscribers; \$39 per year for all other subscribers. Single Print Issue: \$10. POSTMASTER: Send address changes to Journal of Protective Coatings and Linings, 1501 Reedsdale St., Ste. 2008, Pittsburgh PA 15233-2341.

© 2024, Technology Publishing Co. Printed in the U.S.A.

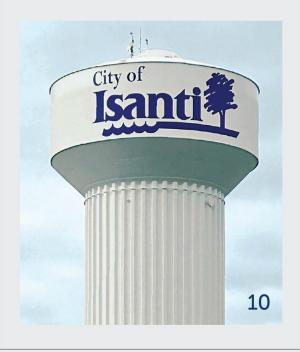
# GETTY IMAGES; JOHN COLETTI / GETTY IMAGES HOTOS: (THIS PAGE) COURTESY OF THE AUTHOR; YAROSLAV OLIEINIKOV / GETTY IMAGES; (FACING PAGE, FROM TOP) ANDY SOTIRIOU /

#### **DEPARTMENTS**

- 1 FROM THE EDITOR
  PaintSquare.com Refresh
- 4 COVERAGE
  - PPG Building New Plant
  - Viking Acquires Jeffco Painting and Coating
- 6 EVENT PREVIEW
  TPC Connect: Industrial Coatings
- 73 BID BITS
  - NJ Lift Bridge, Pump Station Projects Bidding
  - Awards: IN Bridge, ON Water Tower Jobs
- **76 PAINT BY NUMBERS**

#### ALSO IN THIS ISSUE

- **75 PRODUCTS & SERVICES**
- **75 CLASSIFIEDS**
- **75 INDEX TO ADVERTISERS**



#### ORDER BACK ISSUES IN PRINT

store.technologypub.com/products/JPCL-Back-Issues

#### SPECIAL SECTION

#### 37 2024 Equipment Buying Guide

This annual directory features equipment and related supplies for protective and marine coating work from manufacturers, distributors



and rental companies. This year's edition includes listings of more than 140 equipment companies, obtained through a survey sent in April 2024 to companies known to JPCL.

#### **FEATURES**

#### 10 Recondition or Overcoat? Assessing a Water Tank Project in Isanti, Minnesota

BY DANIEL ZIENTY AND JAMES CONNOR, BOLTON & MENK, INC.

Deciding whether to recondition or overcoat the exterior of a water storage tank usually comes down to its visual condition, but other factors come into play in the overall life cycle assessment. This article recaps a recent elevated tank painting project where a full reconditioning was initially specified, but a reevaluation ultimately prompted an overcoat for maximum coating performance.

#### 20 What to Look For in Exterior Rail Coatings

BY TAYLOR LEWIS AND ANA-MARIJA HNRJAK, SHERWIN-WILLIAMS PROTECTIVE & MARINE.

Choosing a coating to protect the exteriors of rail cars requires a careful assessment of application needs, considering factors like environmental conditions, commodity exposure, desired longevity and maintenance requirements. This article outlines these decision factors and highlights some potential benefits of water-based acrylic options.

## Let's Get To It: Access Solutions for Protective Coatings Projects

Coatings projects often take place at height or in remote, difficult-to-access areas. This collection of excerpts from previous expert-written JPCL and PaintSquare articles, edited and updated for this issue by JPCL staff, provides guidance on access-related topics including scaffolding, rope access, elevated work platforms and more.

#### ON THE COVER

Photos: JamesBrey / Getty Images, aradaphotography / Getty Images



MAY-JUNE 2024 / VOL. 41, NO. 4

CURRENT EVENTS,
CONVERSATION,
CALENDAR UPDATES
AND MORE FROM
THE PEOPLE AT
PAINTSQUARE.COM

### PPG Building New TN Coatings Manufacturing Plant

lobal coatings company PPG recently announced its plans to build a new paint and coatings manufacturing plant in Loudon County, Tennessee. The new 250,000-square-foot facility – part of a \$300 million investment in advanced manufacturing in North America – will reportedly be PPG's first new manufacturing plant to be built in the United States in more than 15 years.

According to the company, the plant will initially produce paints and coatings products and solutions for automakers and automotive parts suppliers, but could eventually supply other industrial segments, including transportation, heavy duty equipment, building and construction and consumer products. Once fully operational, the facility

will employ approximately 130 fulltime employees and produce more than 11 million gallons of paint and coatings annually.

Additionally, the investment will enhance and expand PPG's manufacturing activities at existing facilities in Cleveland and San Juan Del Rio, Mexico. Funding will reportedly cover "As we continue to see a resurgence of manufacturing in the U.S., PPG will leverage this new facility ... to maximize quality, improve operational efficiency, and reduce product complexity within our manufacturing footprint."

new equipment and processes that will increase manufacturing efficiencies to result in improved processing times and expand PPG's capabilities to meet growing demand for sustainable solutions, such as waterborne coatings.

PPG explains that, while the investment represents a strategic, growth-focused investment, it does not represent a change in the company's overall capital investment spending levels, which will be consistent with prior years.

"Innovation is at the forefront of PPG's purpose in protecting and beautifying the world. These investments continue to modernize and digitize our manufacturing capabilities, and demonstrate PPG's continued focus on quality and service to our customers as the premier single-source coatings supplier for every vehicle surface," said Tim Knavish, PPG chairman and chief executive officer.

"As we continue to see a resurgence of manufacturing in the U.S., PPG will leverage this new facility and our other site investments to maximize quality, improve operational efficiency, and reduce product complexity within our manufacturing footprint."

Construction of the facility will begin this year in August, with completion anticipated for 2026, according to PPG.

"As the automotive industry continues to transform, we're excited to expand our manufacturing capabilities to meet the evolving needs of our automotive customers," added Alisha Bellezza, PPG senior vice president, automotive coatings.

"The strategic location of PPG's new facility in Tennessee also creates a more efficient and effective supply chain with close proximity to many automotive manufacturing facilities, which will further enhance the service experience for our customers."

## PHOTO: TPAP8228 / GETTY IMAGE

## Viking Expands West Coast Presence with Jeffco Acquisition

n May, industrial painting service provider Viking Companies announced the acquisition of Jeffco Painting and Coating, Inc.
According to Viking's emailed press release, the strategy is meant to expand the company's portfolio and strengthen its position in the coatings industry.

Based in Vallejo, California, since 1978, Jeffco Painting and Coating has served clients in California and Northern Nevada with its industrial painting and maintenance services. Viking explains that Jeffco will Jeffco will gain access to additional resources, expertise and market reach thanks to the acquisition.

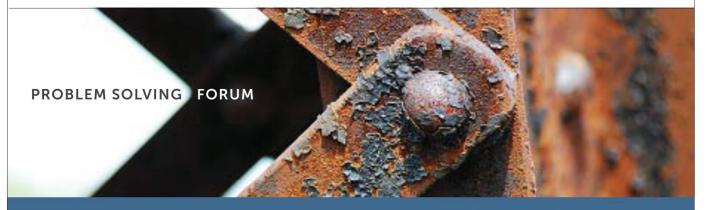
"We are excited to welcome Jeffco Painting and Coating into the Viking family," said Rory Sudbeck, President of Viking Companies. "Their commitment to quality aligns perfectly with our mission to provide exceptional industrial services."

Viking adds that the acquisition allows the company to enhance their service offerings, as well as broaden their customer base on the West Coast. Both companies reportedly share a commitment to safety, innovation and customer satisfaction.

"We are looking forward to this merger with Viking, which will certainly strengthen our abilities to perform and provide the best possible outcome for our clients," said Matt Eggley, President of Jeffco Painting and Coating

"We are extremely excited to have this opportunity and feel it is a great fit for both companies because we share many of the same values, first and foremost being the provision of excellent service and products."

Viking Industrial Painting was established in Northern Iowa in 2001 and is now headquartered in Omaha, Nebraska. Jeffco now joins the Viking Family of companies, which also includes Neumann Company Contractors and Mongan Painting, in addition to Pennsylvania-based Minoan Industrial Services, which was acquired in May of last year.



## Is there a place for using rust convertors in heavy-duty maintenance projects?

#### S. SANKARA NARAYANAN, SWATANTRAYA CONSULTANCY:

"Definitely ... [for] rust formed at inaccessible places where mechanical cleaning not possible, this material makes the task of rust removal very easy [with] less effort."

#### BART BERGSBAKEN, SPG:

"Absolutely! It is done regularly by our customers."

#### TOM SCHWERDT, ACTIVE TRANSPORTATION ADVOCATES, JPCL EDITORIAL ADVISORY BOARD:

"At different times I've tried three of them. None of them seemed to slow down the corrosion. One of them seemed to accelerate the corrosion. Maybe there are ones that work, but not the ones I tried."

#### **ROB FRANCIS, R.A. FRANCIS CONSULTING:**

"Australian Standard AS/NZS 2312.1 lists acceptable coating systems for a wide range of environments and concludes, regarding rust converters, that: 'The use of a 'rust converter' with any of these systems is not recommended, and will detract from their subsequent performance.'"





# GEARING UP FOR THE 7TH ANNUAL TPC CONNECT: INDUSTRIAL COATINGS

BY JPCL STAFF

Т

he seventh annual TPC Connect: Industrial Coatings (formerly Contractor Connect) will be held November 4-7, 2024, at the beautiful Lake Las Vegas Hilton Resort & Spa in Henderson, Nevada. Produced and hosted by Technology Publishing Co. (TPC), industrial painting contractors and industry suppliers will convene for three-plus days of networking, education, fabulous activities and one-on-one meetings.

"TPC Connect is well known and valued for providing important industry connections, establishing and enhancing relationships and facilitating commerce," said TPC CEO Brion Palmer.

#### Planned Recreation

As part of the event this year, Sherwin-Williams is sponsoring a genuine bucket-list experience: a helicopter tour of the Grand Canyon. After enjoying bird's-eye views of this awe-inspiring natural wonder, the group will land on the canyon floor for a short reception and photo opportunities. On the return flight, participants will witness the beautiful sunset over the canyon and the amazing light show of the Las Vegas Strip.

Technology Publishing Co. (TPC) is the parent company of JPCL.



Participants will have the option to take part in a helicopter tour of the Grand Canyon, a golf outing and evening socials, in addition to educational sessions.



TPC CEO Brion Palmer (above, left) has worked with his team to develop memorable activities for each of the seven years the event has been produced. This time around, the fun will include a tour of the Hoover Dam and a Casino Night exclusively for TPC Connect attendees.



"We'll also bring our legendary Casino Night to Nevada!" said Palmer. "Sponsored by Tnemec, this signature event gives all participants the chance to have some fun competing for great prizes."

Other planned activities include a golf outing sponsored by PPG at SouthShore Country Club – a private club that offers amazing views from multiple holes and provides a great experience for golfers of all skill levels – as well as a tour of the colossal Hoover Dam.

#### Why Attend?

"The event continues to grow in stature and importance to the industry," Palmer added. "It is the only industry event that truly connects executives from industrial painting contractors with key industry suppliers in an intimate setting that allows for proprietary and mutually beneficial conversations.

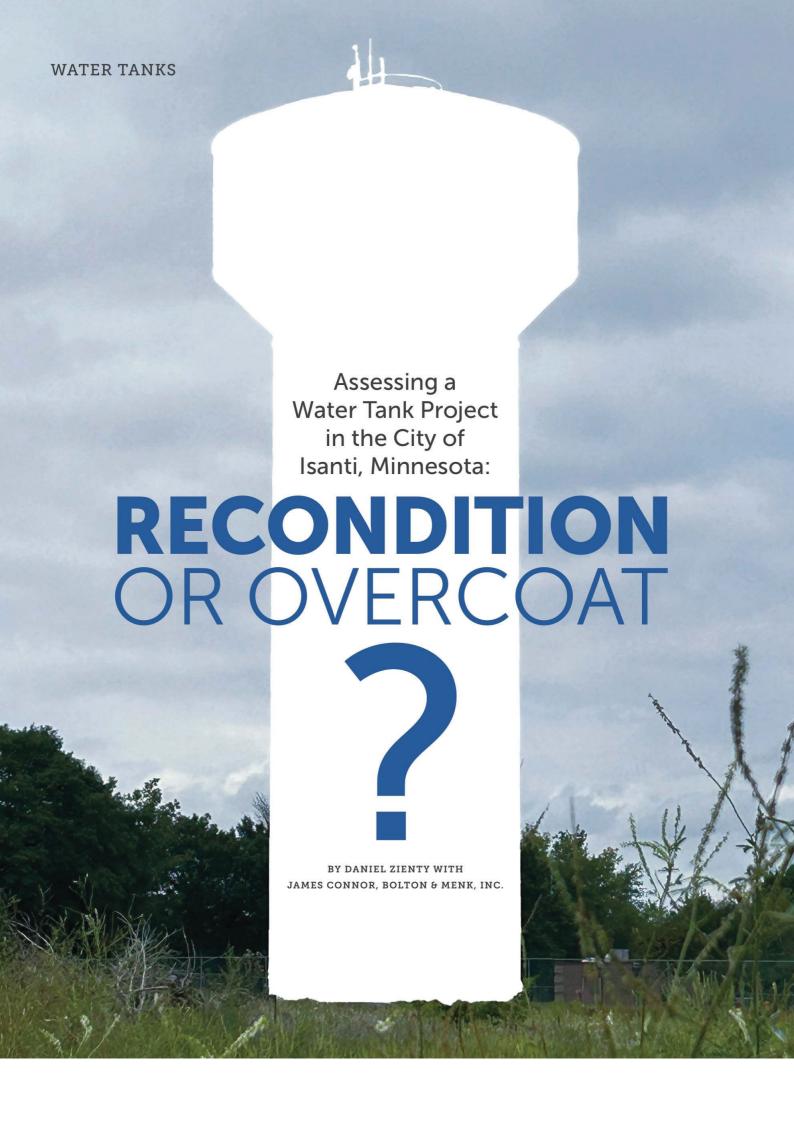
"Our goal is to make every TPC Connect better than the previous year. This will be the most memorable and generative Connect event we've ever produced for industrial coatings professionals – and it's only possible thanks to the generous support of our sponsors."

To be invited as a hosted contractor and learn more about participating, go to tpc-connect.com/ic, where event details will be updated.

#### Sponsorships Still Available

The current list of participating suppliers this year includes Sherwin-Williams, PPG, Carboline, Tnemec, Induron Protective Coatings, Graco, Montipower, Allredi, Enviri (formerly Harsco), Corrosion Innovations, Ervin Industries, McBrayer & Associates, LMCI, Strategic Materials Inc., The Wooster Paintbrush Company and Nationwide Overspray.

Visit tpc-connect.com/ic to learn about sponsoring the 2024 TPC Connect: Industrial Coatings event. JPCL



ften times, the answer on when to consider the option of a complete exterior reconditioning or an overcoat for a water tank is quite simple: it's visual.

Sometimes, the need for a complete reconditioning is clear, such as when the tank exhibits extreme rusting along with excessive chalking and other traits associated with an ending to the protective coating's longevity and serviceability. Other times, however, it's not quite so clear. Areas exhibiting rusting and corrosion are minimal, as are inherent signs of cracking, delamination and the thinning of the protective coating. Of lesser consideration regarding the decision to overcoat, and one that may not be thought of until after the project: appearance.

In 2017, the City of Isanti, Minnesota, had just that type of situation regarding its 750,000-gallon fluted style water tower, which was originally built in 2003. The city contracted with an infrastructure engineering firm for a complete assessment of the facility inclusive of the interior (immersion), interior dry, exterior surfaces and tank appurtenances. The results identified a need for monitoring of the interior (immersion) surfaces where moderate rusting along isolated areas of the roof support system were identified, along with interior dry areas subject to condensation such as the bottom bowl and access tube.

However, the exterior after 14 years appeared to be performing to expectations, with areas exhibiting only minor rusting. No maintenance was prescribed, though as mentioned, the tank should continue to be monitored, aligning with AWWA guidelines of 3 to 5 years as it draws closer to its life expectancy range of 15 to 20 years. While some systems can last significantly longer, the recommendation would allow the City of Isanti to anticipate the pending project. At that time, a life-cycle cost comparison of spot repair and overcoat versus a full removal and replacement would be conducted.



On the southeastern quadrant of the tank, numerous spots were abrasive blast-cleaned to a Commercial finish.

MAY-JUNE 2024 / VOL. 41, NO. 4







Prior to work taking place, readings were taken on the tank column referencing milage and cracking failure (a), while spot adhesion testing and milage readings were taken on the roof radial plate (b). Corrosion was widespread on the interior dry catwalk and access table (c) and the immersion compression ring (d). There were additional indications of a thinning coating system on the roof radial plates (e and f).





#### Reevaluation

In June of 2022, the City of Isanti requested an inspection, and updated evaluation of the original 2017 report. The field assessment identified minor to moderate corrosion in the interior immersion area, mainly at the weld seams and structural steel support edges, with portions of the edges experiencing a "stratified" or "pack rust" condition. The interior dry condition was like the previous inspection, but with the addition of pinpoint corrosion along the walkway and catwalk.

The surfaces of the exterior accessible without special rigging, such as the tank base, fluted column and roof, were evaluated for coating thickness, adhesion and visual conditional failures. Millage

ranged from approximately 10 to 17 mils on the roof to approximately 7 to 11 mils at the base column. Crosscut adhesion testing, following ASTM D3359 Method A, was performed on both the roof and column base, resulting in readings (3A) that would justify the tank as a candidate for overcoating.

Visual examination revealed the presence of "micro-cracking," on both the roof and column; however, in the areas where present corrosion was not visible. Though minor rusting was observed on the tank's exterior, it appeared to be limited to less than 5% of the total surface.

Based on the above assessment two options and associated costs cut presented to the city for their consideration, they included the following options.

PHOTOS: COURTESY OF THE AUTHOR



#### **OPTION 1: EXTERIOR OVERCOAT**

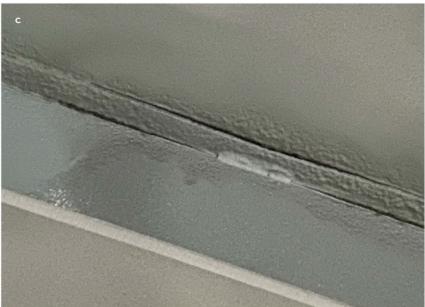
- Complete coating removal (abrasive blast) and replacement of the interior (immersion) coating system;
- Complete coating removal (abrasive blast) and replacement of the interior (dry), limited to the access tube and bottom bowl, and spot repairs to remaining surfaces (<5%); and
- Pressure wash, spot repair (<10%), and overcoat exterior (two-coats).

#### OPTION 2: EXTERIOR WITH COMPLETE REMOVAL AND REPLACEMENT

- Complete removal and replacement of the interior (immersion) coating system;
- Complete removal and replacement of the interior (dry), limited to the access tube and bottom bowl, and spot repairs to remaining surfaces (<5%); and
- Complete removal (abrasive blast with full-containment) of the exterior coating system and replacement with a three-coat zinc/epoxy/urethane system.

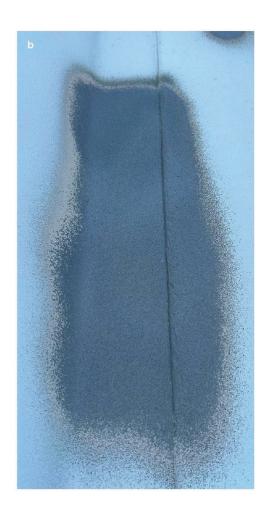
The life cycle for an overcoat is approximately 10 years, whereas complete replacement has an approximate life cycle of 20 years.

The contractors performed power washing on the entirety of the fluted column before spot abrasive blasting followed.



Spots at the baseplate and bottom section of the fluted column were Commercial Blast Cleaned (a), with a closeup of feathered edges shown (b). Also, Near-White Blast Cleaning was performed on the roof support angle of the interior immersion surfaces (c), and along the outer painters' rail (d).





With the two options determined, cost estimates for both were developed based on the overall scope, including consideration for appurtenances identified with the city, and a cost/life cycle analysis was completed. Those estimates were \$475,000 and \$825,000 for options 1 and 2, respectively.

With approval from the city specifications were developed, the bid packet was to identify the exterior scope as separate options or alternates, with Alternate 1 representing full exterior replacement and Alternate 2 exterior spot repair. This allowed the city, with its engineer, through the bidding process to determine the most cost-effective solution – overcoating.

#### Construction

The contractor received its notice to proceed on May 3, 2023, and mobilized on May 22. The project was on a tight schedule as this



After primer application, an initial tie-coat of epoxy was applied to the tank's girder and shell plates.

tank is Isanti's only water storage facility. The city required completion within 60 days due to concerns that its distribution system would be operating directly off its well pumps during peak demand. This had the contractor working simultaneously on both interior and exterior surfaces as weather allowed.

Specific to the exterior, commencement of the project began following Option 1 per the follow-up assessment recommendation mentioned previously, which identified a power-wash followed by spot repairs of failed areas (<10%) and application of a two-coat system. This was addressed more specifically in the specification which called for a thorough water jet cleaning in accordance with SSPC-SP 12, WJ-4 of all exterior surfaces, using a rotating nozzle with a minimum temperature of 140 degrees F biodegradable detergent and water solution (1 to 2 oz. detergent per gallon of water) at a minimum of 4,000 psi with a flow rate of 3 to 5 gallons per minute.

The process was followed by a complete high-pressure rinse with clean water. Exposed metal and spot areas exhibiting rust and or identified microcracking were then abrasive blasted to an SSPC-SP 6/NACE No. 3, "Commercial Blast," with edges feathered for a smooth transition into tightly adhered coating, with an angular profile of 2.3 to 3.0 mils.

At the onset of surface preparation, the southeast quadrant of the tank's fluted column, the first two stage drops, required significant spot blasting. This brought initial concern as the specification, based on the field evaluation, indicated <10% of the entire surface as needing repair. However, this area would prove to be the worst with respect to exterior coating failure. The remaining surfaces, especially the girder and shell plates, saw few to no repairs required.

Following the surface preparation, the specification comprised a spot prime-coat (polyamidoamine) of the affected areas, followed by a complete tie-in coat of a similar product (differentiating color) and high-solids (polyurethane) finish coat. As discussed in the opening, this is where appearance

comes into play regarding overcoating. The application needs to properly achieve overall film build especially over repair areas, so they are less noticeable, while also not creating stresses, cracking and or delamination, affecting coating performance and intended extension of service life.

Noted in the re-evaluation, dry film thickness (DFT) readings for the exterior surface ranges from 10 to 17 mils on the roof and 7 to 10 mils on the column. Roller application of the coating system by the contractor allowed for controlled film build at spot repairs, and about 1.5 mils each on the tie-in and finish coat, for a total of approximately 3 additional mils. The final considerations in assessing aesthetic appearance are color and gloss, as this can become a factor by visibly accentuating repaired areas. Specific to this tank, the city elected to go with a light color, white.



A polyamidoamine primer coating was applied across the previously blasted spots of the tank's fluted column.

#### RELIABLE PROTECTION THROUGH **INNOVATIVE COATINGS**

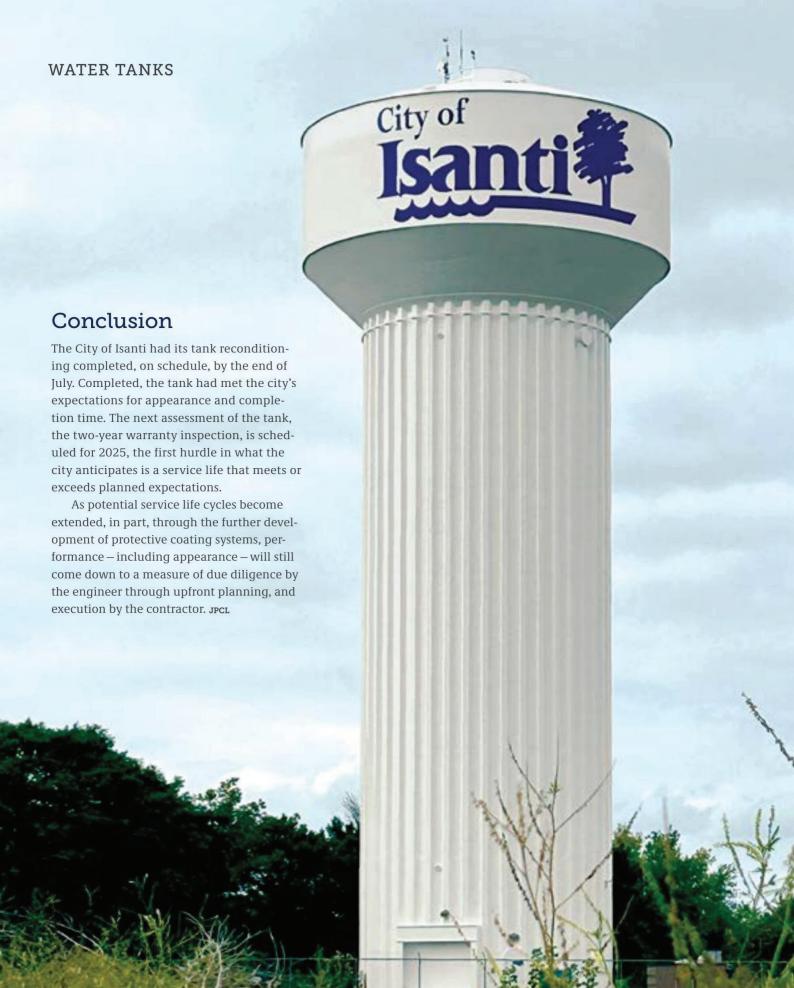


#### Power | Water Tank & Treatment Plant | Industrial | Pipe Products



induron.com | info@induron.com | 205-324-9584 **CONTACT US** 





#### ABOUT THE AUTHORS



Daniel Zienty is a Coating Specialist with Bolton & Menk, Inc., who has more than 25 years of industry experience. He holds a bachelor's degree in Construction Technology from Purdue University and is a NACE-certified Coating Inspector, as well as an SSPC-certified Protective Coatings Specialist and Supervisor for Deleading Industrial Structures. He has received numerous Engineering Excellence Awards from the Consulting Engineers Council of Minnesota for his work on

water tower restorations, and has authored and presented related articles on protective coatings maintenance.



James Connor is a Senior Protective Coating Specialist and American Welding Society (AWS) certified Weld Inspector with Bolton & Menk, Inc., with more than 36 years of industry experience. Connor is also a certified Senior Coatings Inspector with the Association for Materials Protection and Performance (AMPP), and he has also served on the development committee for Bridge Component Standards with the American Institute of Steel Construction.

#### REFERENCES

 Helsel, Jayson and Lanterman, Robert. "Expected Service Life and Cost Considerations for Maintenance and New Construction Protective Coatings Work." KTA-Tator, Inc. Presented at NACE CORROSION 2016, March 6–10, 2016, Vancouver, B.C.







MAY-JUNE 2024 / VOL. 41, NO. 4



A 65-foot gondola, coated in black acrylic, can carry cargos that are impervious to weather conditions, including metal, coal, coke, aggregates, sand, ores, gravel, slag, scrap, poles, railroad ties and other goods. making them a viable alternative for epoxies. As the rail industry continues to compete with truck-based shipping, rail owners and operators must find ways to ensure the industry remains the lowest cost mode of transporting freight – and water-based acrylics are playing a key role.

#### The Basics

Based on a railcar's expected service life and exposure, aesthetic and corrosion protection needs, and cost objectives, fleet owners and managers must make crucial considerations that align with operational goals.

At the outset of 2023, the Association of American Railroads reported a total of 1.7 million cars on North American railways. Hoppers and covered hoppers make up the largest segment at 35%, followed by tanks at 22%, intermodal containers at 10% and gondolas at 10%, according to the 2023 North American Freight Railcar Review. Many railcars, especially tank cars, have commonly been coated with epoxies. Apart

from these, car owners have the discretion to choose an exterior coating for the nearly 1.3 million other cars.

Preferences among railcar owners vary, leading to the choice of coatings tailored to their specific fleet needs with some prioritizing appearance and others emphasizing long-term asset protection. There are advantages and disadvantages of both acrylics and epoxies, in terms of life cycle, ease of application and overall performance characteristics.

Epoxies are preferred for their high adhesion — especially to marginally prepared surfaces for refurbishment applications — as well as abrasion resistance and chemical resistance. Epoxies provide versatility across various industries and cleaning protocols. However, they exhibit poor UV resistance, leading to noticeable chalking and fading.

Acrylic coatings are known for their excellent color and gloss retention, providing a visually appealing and durable finish. They are more flexible compared to some alternatives, making them suitable for railcars that undergo aggressive



loading or unloading processes, which often requires operators to bang on the sides of the cars with hammers or use vibrators to help release the cargo from inside the car.

Other potential benefits include an easier application and less exposure to harmful isocyanates and known carcinogens. Additionally, advancements in drying cycles have reduced downtime and improved paint shop throughput, enabling quicker return to service. Furthermore, water-based acrylic coatings reduce the need for solvents in thinning and cleaning and often have lower VOC emissions, aligning with environmental considerations and regulatory standards.

For car owners, specifiers and applicators, consideration of the latest research and information can help them make the right decisions to fit their needs. Evaluating coating systems involves considering not only their features, benefits and overall value but also accounting for other factors that contribute to the overall costs. These include the cost of equipment, use of

solvents, disposal of hazardous material and the environmental impact.

## Enhancing and Advancing Life Cycles

Increasingly, exterior coatings for railcars are viewed as a significant long-term investment that can extend the life of an asset.

Current well-established and recognized test methods for evaluating coatings can be applicable to both waterborne and epoxy chemistries. Working with a coatings manufacturer or independent testing lab, a car owner can access testing methods that will provide substantive side-by-side comparisons between the two different technologies. Some test methods to consider are listed in **Table 1**.

While the primary focus of exterior coatings has traditionally been on functionality, there is now a growing emphasis on aesthetics. Maintaining a car's aesthetic appeal over many years of service retains the value of assets. Overall cost-effectiveness

Table 1: Test Methods for Evaluating Waterborne and Epoxy Coatings

ASTM STANDARD	DESCRIPTION
ASTM D5894-16	Standard Practice for Cyclic Salt Fog/UV Exposure of Painted Metal
ASTM D4541-17	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
ASTM D4587-11	Standard Practice for Fluorescent UV-Condensation Exposures of Paint and Related Coatings
ASTM B117-19	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM D523-14	Standard Test Method for Specular Gloss
ASTM D4060-19	Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
ASTM D870-15	Standard Practice for Testing Water Resistance of Coatings Using Water Immersion
ASTM D3363-22	Standard Test Method for Film Hardness by Pencil Test
ASTM D2794-93	Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
ASTM D522/522M-17	Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
ASTM D2805-11	Standard Test Method for Hiding Power of Paints by Reflectometry
ASTM D4400-18	Standard Test Method for Sag Resistance of Paints Using a Multinotch Applicator
ASTM D1308-20	Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Coating Systems



Ensuring that all surfaces of autoracks are fully coated is critical, as any exposed steel surfaces can cause rust bleeding which could damage exterior paint of new automobiles.

can be enhanced as a car remains on the tracks without requiring recoating.

Gloss retention — a coating's ability to maintain its gloss and reflect direct light — serves as a crucial measure of coating durability. As a coating degrades, its surface becomes rough, leading to a reduction in gloss. Rapid loss of gloss in the topcoat is indicative of accelerated deterioration. Without adequate corrosion protection, rust can develop, and components may deteriorate. In the long run, expenses related to rust removal, part replacement and preventable repairs can surpass the upfront cost of applying a protective coating.

Epoxies prioritize chemical resistance over gloss retention, which is also important for durability. However, some epoxies now boast superior weathering properties by chalking black and maintaining visual appeal for many years.

Acrylic coatings offer generally better color and gloss retention compared to epoxies. Still, acrylics can have limited chemical resistance and may not be as durable in demanding conditions.

Water-based acrylic coatings are also more flexible than epoxies, making them suitable for railcars with more aggressive loading or unloading, such as when workers hammer on hopper cars to knock dry commodities loose. While this may pose a potential threat to the exterior coating, water-based acrylic coatings are more impact resistant, taking hammering easier than epoxies, which can fracture.

#### **Cost Savings**

Exterior coatings play a critical role in reducing the total cost of ownership for railcars and promoting profitability. For many car owners, the optimal choice comes down to key questions. For instance, should the paint job be held only until the car's initial inspection cycle, or should it provide sufficient corrosion protection to last until the subsequent inspection? Various other factors also influence the final coating selection, with water-based acrylics often being the lowest-cost option, but not always.

For specifiers, factors like exterior coating service life, impact and abrasion resistance, edge retention, cleaning compatibility and versatility weigh heavily in decisions to minimize costs. They often focus on the durability of a coating — especially on welded edges, sharp seams and other areas that are crucial for long-term performance and corrosion protection.

For shop applicators, the choice of exterior coating can play a significant role in maximizing facility throughput, as well as reducing labor and equipment costs. For example, with water-based acrylic coatings, shops do not require the sophisticated application equipment for applying high-solids epoxies, which call for plural-component sprayers, which require significant capital investments, maintenance costs, and operator training.

Cost savings can also come from reduced material waste, as newer higher volume solids and improved formulas allow the applicator to achieve better control over film builds when spraying water-based acrylics. In addition, such acrylics feature lower VOC emissions, which leads to decreased shop permitting costs.

Car owners weigh the importance of initial paint and labor costs against the long-term value offered by each coating system, enabling informed decisions based on their bottom-line priorities. Here, water-based acrylic exterior rail coatings can offer multiple advantages in initial cost savings. However, they are not the coatings choice for every circumstance due to durability considerations related to the railcar's planned service environment – and the type of cargoes that will be transported.

For example, in severe industrial environments, acrylic coatings typically last about eight years, while epoxies often see a service life of up to a dozen years. Considering a railcar's useful life of approximately 50 years, lessors can expect to repaint their railcars four to five times in these conditions, irrespective of the coating type.

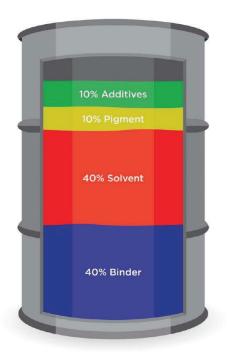
In painting rail cars, customers face an array of considerations to ensure both

cost-effectiveness and longevity of the coating. First, understanding the total surface area of the rail car is crucial for accurate cost estimation and material planning. Equally important is the evaluation of labor costs associated with preparatory tasks such as abrasive blasting, masking, painting and stenciling, which typically range between \$4,500 and \$5,000 per rail car, regardless of the chosen coating system.

Customers must carefully conduct a thorough cost analysis for the expected service life of a coating – considering factors such as durability, maintenance requirements, and environmental conditions. While acrylic coatings may offer lower upfront costs, high-solids and 100% solids epoxies often prove more financially viable in the long run due to

Boxcars receive exterior and interior coatings and carry cargos including paper, automobile parts, cases of beverages, appliances and certain types of food.





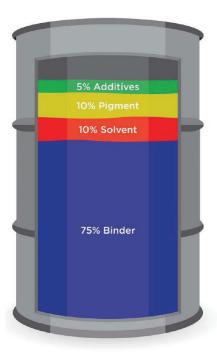


FIG. 1: The composition of solvent-based paints, (left) differs significantly from water-based acrylic formulations (right).

their extended durability and lower average yearly maintenance expenses.

Customers should also consider regulatory compliance and environmental impact, ensuring that chosen coatings meet industry standards for safety and performance while minimizing emissions of VOCs. Maintenance requirements — including inspections, cleaning and touchups — must also be factored in to ensure the longevity of the paint job and minimize future expenses. Efficiency in shop throughput is another important factor, as higher throughput capabilities can lead to lower overall costs per rail car painted.

Ultimately, by carefully considering these factors, customers can make informed decisions when selecting the appropriate coating system, balancing upfront costs with long-term durability and maintenance expenses for optimal results.

#### Emphasizing Sustainability

Environmental compliance and adherence to health and safety standards are also part of any deliberation about exterior coatings.

The composition differences between water-based acrylics and solvent-based

epoxies are a good starting point for comparison. As shown in **Figure 1**, solvent-based formulations contain about 30% more solvent and 5% more additives than water-based formulations. These differences naturally contribute to higher VOC emissions when using solvent-based chemistries.

Water-based coatings are generally one-component chemistries with lower levels of VOCs compared to traditional solvent-based coatings – contributing to improved air quality, less odor, reduced environmental impact and lower PPE costs.

Typically, waterborne coatings are seen as 20-year systems, which can lead to fewer refurbishments over the course of a railcar's life. High-solids coatings are designed for long-term durability to enable longer service lives between recoating.

Over time, epoxy exteriors can fade and chalk, due to UV light. Solvent must also be kept around, which can also create hazardous waste. With an acrylic, you would not need those additional expenses or burdens for the shop. Being solvent-free further decreases costs related to thinning and cleaning solvents, while also significantly reducing hazardous waste disposal expenses.

Overall, acrylics are a more environmentally attractive option for those concerned about reporting hazardous air pollutants (HAPs). This is especially important for the health and safety of workers during the coating application process. Water-based coatings often meet or exceed strict regulatory requirements related to air quality and emissions in many regions, helping companies stay compliant.

The milder odor of water-based coatings can also enhance working conditions for applicators. Cleanup can also be performed without the need for harsh solvents, simplifying equipment and tool maintenance and contributing to a safer and more sustainable working environment.

#### **Enhancing Efficiency**

An emphasis on swift and efficient application methods in railcar coating underscores

26

the industry's priority of achieving rapid returns to service.

Acrylic coatings present a notable advantage, requiring less upfront training of applicators and less capital-intensive equipment – since applicators do not need to mix multiple components as they do with epoxy coatings. Advancements allow stenciling in as little as 90 minutes. Many acrylics are also formulated to reduce pot-life concerns and mix-ratio mistakes. However, they have lower solids by volume, necessitating more material to achieve the specified dry film thickness.

Acrylic coatings have faster dry to handle and dry to stencil times, reducing valuable time on the paint line. Touch-up and rework are significantly easier due to the unlimited recoat window that acrylics offer. This lowers total applied costs through increased efficiencies.

#### **Acrylic Availability**

Given their chemistry, it's important to note that water-based acrylics can be susceptible to freezing, complicating shipments based on seasonal conditions, such as low temperatures and high humidity. Therefore, due to seasonal sensitivities, supply chain optimization is essential. This also tends to provide the lowest cost-to-market expenses.

Supply chain resilience — with proximity to customers, just-in-time delivery and reduced indirect costs — helps address this issue. The short shelf life of water-based products can be addressed by locating manufacturing facilities in close proximity to customers, reducing transportation costs.

In the past, water-based products faced challenges due to the high production costs of resin systems. Now, there is more control over manufacturing and the entire process, from resin creation to manufacturing, distribution and expertise in water-based coatings. This control allows for better quality assurance and consistency in the products.

#### Conclusion

When deciding between acrylic and epoxy coatings, decision-makers must weigh the advantages and disadvantages of each. Acrylics offer a lower initial application cost, less expensive equipment, improved aesthetics and a reduced environmental impact. On the other hand, epoxies tend to provide a lower long-term value by extending the expected service life by a few extra years. Additional factors come into play when considering a water-based acrylic or epoxy option or a solvent-based one.

Consulting with coating specialists and manufacturers can offer tailored insights for the specific requirements of railcar operations and provide options that align with their priorities and profitability goals. That said, water-based coatings are clearly part of a complete portfolio. JPCL

#### ABOUT THE AUTHORS



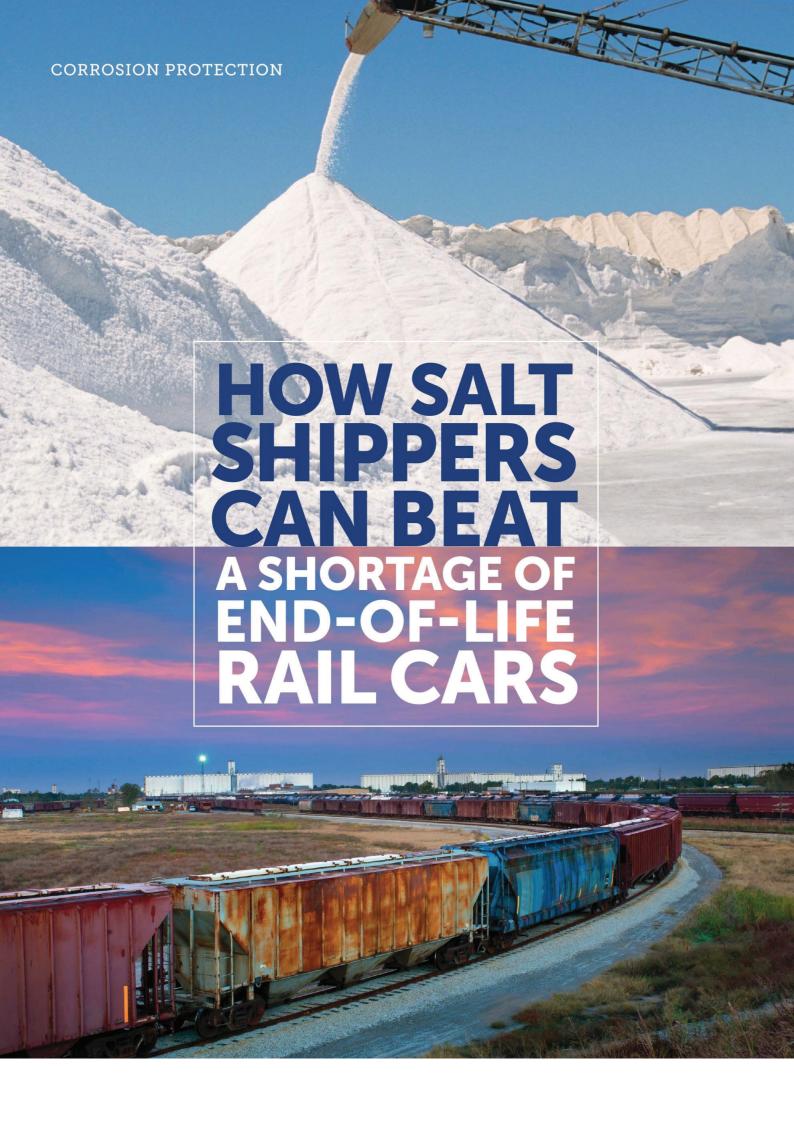
Taylor Lewis is the Sales Manager – Freight Rail for Sherwin-Williams Protective & Marine. He is an AMPP Senior Certified Coatings Inspector and has nearly 20 years of

experience in the coatings industry, including multiple roles in sales and marketing spanning from Alaska to the Gulf of Mexico.



Ana-Maria Hrnjak has been an R&D Chemist with Sherwin-Williams for three years, serving on both the Strategic Initiatives and Transportation/Rail teams. Hrnjak became a member

of AMPP as well as SC-17 Land
Transportation and a certified Level 1 CIP in
2024. She graduated from The University of
Akron in 2021 with a bachelor's degree in
chemical engineering with a minor in
chemistry and a specialization in polymer
engineering. While attending the university,
she was an active member of The American
Institute of Chemical Engineers.



B

ulk salt shippers across North America have a problem. A shortage of the hopper cars that comprise the continent's salt car fleet is threatening to disrupt the consistent, reliable and cost-effective transportation of the commodity. It's not just any shortage, because salt shippers do not transport their freight in just any hopper cars. Instead, they rely almost exclusively on old rolling stock nearing the end of its useful life. But a shortage of those assets means either the shippers must be ready to adjust to the scarcity, or embrace a new way of thinking about how salt is shipped over the rails.

BY MATTHEW McDONALD, CARBOLINE

## Why Do Salt Shippers Use End-Of-Life Cars?

They do for many reasons, but the primary one is the simplest: Salt is corrosive.

Here is where corrosive cargo meets economics. Rail cars are worth their cost if you can get them to last the 50 or so years they were built for. Salt is so corrosive, and the cost to repair serious corrosion damage so high, that it has never made financial sense to use newer cars in this service.

Conversely, if an old car's next stop is the scrap yard, the condition of its lining or coating no longer concerns the shipper. They run the car in salt service for as long as it safely lasts without maintaining its corrosion protection, and then discard it. The cycle repeats as another aging car replaces the prior one.

But in the last few years, end-of-life replacement cars have proved harder to find and the cycle is interrupted. Another look at economics helps illustrate how that interruption can cause problems.

Rail cars are not the only way to move salt in bulk, but they are one of only two ways to do it cost effectively at scale. Like any shelf-stable cargo, shipping it by rail or boat simply cannot be beaten on a cost-per-mile basis.

Buyers are the beneficiaries. They have enjoyed a predictable, low-cost supply of salt partly because of how shippers have chosen to deliver it. But if the shortage of this sector's rolling stock persists, that won't be the case for much longer.

The impacts ripple outward:

- It could take longer for shippers to locate end-of-life cars for salt service;
- Salt shipment intervals would then lengthen, so distributors draw down reserve supplies faster;
- Meanwhile, salt storage sheds upstream fill up faster and stay full;
- The cost to ship salt begins to rise as shippers work harder to keep shipments on schedule; and
- The cost to buy salt also rises because the added cost of its movement is passed on to end users.

Something must give. Though shippers may not want to hear it, here's a potential way out: Maybe it's time to put younger rail cars in salt service.



FIG. 1: The exterior of this hopper car is protected by a single coat of direct-to-metal (DTM) epoxy. This widespread corrosion is typical of rail cars in salt service.

#### Rethinking Corrosion Protection for Salt Service

This section is titled "Rethinking," but maybe more appropriately, we should focus on simply thinking about it at all.

The experienced shipper knows that in today's current way of operating, it is cost-prohibitive to apply and maintain even minimum corrosion protection for salt cars, which would consist of one or two coats of epoxy on the interior and a single coat of direct-to-metal (DTM) epoxy on the exterior. Salt would ruin that system in two or three years, the same duration the car would be in service if it hadn't been lined or coated at all. But the math pencils out differently if shippers treat salt cars less like salt cars

Provided a hybrid elastomeric polyurethane rail car lining is properly maintained, it is plausible to expect twice the service life or longer with no total blast or reline.



FIG. 2: The corrosion protection package for this hopper car in salt service consisted of a zinc-rich primer followed by an epoxy. The photograph was taken five years after system installation.



FIG. 3: The interior lining of this salt car consists of a single coat of epoxy. Its poor condition is typical of a car in salt service.

and more like other steel assets exposed to corrosive attack.

For salt car linings, consider a low- or no-VOC, thin-film, self-priming, hybrid elastomeric polyurethane. Thin-film versions of these advanced formulas offer exceptional barrier properties, strong abrasion resistance, great flexibility and elongation for impact and reverse impact damage resistance, and excellent protection against corrosion in aggressive environments. They're safe, too: 100%-solids options make confined-space application better for rail car lining applicators.

Provided a hybrid elastomeric polyurethane rail car lining is properly maintained, it is plausible to expect twice the service life or longer with no total blast or reline.

For exterior corrosion protection, consider a conventional organic zinc-rich primer followed by an epoxy. Compared to the more rudimentary direct-to-metal epoxy coatings typical of most rail cars, the sacrificial zinc in a zinc primer provides galvanic protection against corrosion.

It's true that a more comprehensive system consisting of zinc primers is ordinarily off the table for any rail shipper because the added cost and shop time is not worth what amounts to overkill corrosion protection. But for salt shippers, that overkill is compared against doing nothing, and today's shortage of end-of-life salt cars means doing nothing is no longer feasible.

As with hybrid elastomeric polyurethanes, it is not outlandish to double the expected service life of a salt car when its zinc-epoxy exterior corrosion protection system is properly maintained.

## Is Today's Shortage Just a Blip?

It is difficult to answer this question definitively, because rail car construction trends are hard to predict, and commodity shippers' behavior under changing circumstances is even more so. But, in



FIG. 4: A hybrid elastomeric polyurethane lining as seen five years after installation in a hopper car in salt service.

general, pessimism prevails owing to a few macroeconomic conditions.

First, hopper car construction dropped off in 2008 after a handful of years in which shops collectively turned out around 20,000 units a year. That drop coincided with market demand for hoppers at the time, which was weak. Shippers found enough existing rolling stock, so they didn't need to order any new. With fewer cars built a generation ago, fewer will be available for salt service in their old age.

Second, hopper car construction took another hit during the COVID-19 pandemic. As whole sectors of the economy shut down, car shops scaled back operations, laid off staff, and some stopped work completely for weeks.

Third, and also related to the pandemic, is the persistent volatility across practically all sectors involved in rail car production that the industry still confronts today. That ranges from raw material shortages to soaring material costs to a more competitive labor environment.

So even though the North American economy is strong, and even though demand for hopper car capacity is growing, shippers remain sensitive to high construction costs and more of them make do with existing cars than would be expected.

Salt shippers reliant on older cars have already noticed that these units are harder to find, and it's going to get harder still. Broad trends suggest that it may stay that way for a long time.

#### Conclusion

Salt shippers should put newer, or maybe even new-built, cars into service. That's expensive, and so is applying a more robust corrosion protection package — at least in terms of dollars up front. But this paradigm shift will pay off later in the form of better-protected and better-maintained cars that stay on the rails longer.

No one in the supply chain has a better shot to change the game for the better than the shippers. JPCL

Salt shippers should put newer, or maybe even new-built, cars into service. That's expensive, and so is applying a more robust corrosion protection package ... But this paradigm shift will pay off later in the form of betterprotected and better-maintained cars that stay on the rails longer.

#### ABOUT THE AUTHOR



Matthew McDonald is Director of Rail Sales for Carboline and is based in

Philadelphia. He has 34 years of experience in high-performance industrial coatings and previously held positions with Sherwin-Williams, Jotun and PPG. He is an SSPC-certified Protective Coatings Specialist and a NACE-certified Coating Inspector.



#### Access Solutions for Protective Coatings Projects

#### Access, Access: Reach Out and Hug a Bridge

BY ROBERT IKENBERRY, CALIFORNIA ENGINEERING CONTRACTORS

(Blog post updated from PaintSquare.com, May 2017)

We've all heard the real-estate cliché: "The three most important things about selling a house are location, location, location." Realtors focus on location because most of the other features of a home can be adjusted. You can remodel a kitchen, you can upgrade insulation or improve windows, you can change the horrible yellow color and you can plant bushes to obscure the rusting cars in the neighbor's

backyard – but you can't generally pick the house up and move it.

Bridge-painting jobs should have a similar mantra: Access, access, access. You can make a lot of adjustments to your crews, equipment and work methods, but if you don't have good access to the structure, an efficient project is impossible. Therefore, you can't just subcontract out the access and forget it. Different trades have different access

EDITOR'S NOTE: The following guidance has been compiled from excerpts of previously published JPCL and PaintSquare articles covering access-related topics including scaffolding, rope access, elevated work platforms and more. The excerpts have been reviewed and updated for this issue by JPCL staff.



needs. What works for ironworkers or electricians won't work for painters. You need an access system designed specifically with your work scope in mind and overseen by someone experienced in the means and methods of bridge cleaning and painting.

First, you need to get really close to the steel for effective painting. Three feet away might as well be a mile. "Spitting distance" isn't painting distance.

Abrasive blasting might be a little more "hands-off," but to really inspect, stripe, prime and finish-paint a steel structure like a bridge, you not only need to reach out and touch it, you really need to be able to "hug" the members.

Complex shapes and interiors of laced members are common on bridges. You need to get at them from both sides. And they have lots of edges, nooks and crannies that need direct

attention and visibility from every angle. Plus, you need that access at every level. You must be able to reach around to coat edges, bolts and rivets, to reach through to coat interior surfaces, and to reach in and around to coat the interior edges, rivets and bolts. Touching the outside surfaces of a complex member is just not close enough.

Scaffold systems have generally been designed with a 6-foot, 6-inch level spacing, and that's just about right for painting access. Certainly, 8-foot levels are too tall. In many instances, you really need to be able to get your head above the highest ledge or beam flange, so you can see over and down onto the inside edge. With a 6-foot, 6-inch spacing you can generally reach down from above for that top foot or so and see over the edge of a ledge up to about the 5-foot, 6-inch level, so that works pretty well. Plus, you can probably reach up to the bottom few inches of the members on the next level, where workers on the upper level can't really see to reach around and under. There always needs to be a "reachability" overlap between the scaffold levels for true coverage.

When I say you need to be able to "hug" the steel, this goes for vertical columns and posts as well. You need to be able to reach them comfortably from both sides with good overlap, so that all the nuts, bolts, rivets, welds and edges can get attention from all directions.

Remember this height limitation when you're designing platforms under the decks of bridges as well. If you can walk under the stringers of the bridge without ducking, your platform is too low. Stringers are typically 18 to 24 inches, and you need to be able to reach up to the top flanges and coat around the bolt or rivet clusters at their attachments. That means being able to reach up so that the back of your wrist – not just your fingertips – can touch the the underside of the deck of the bridge. The time you lose crouching down to stoop (or even crawl) under 4-foot floor beams that are only 2 feet, 6 inches above the deck is worth it when you have to work on the top flanges of the floor beams and stringers.

Remember, for really good access to the steel on a bridge, you don't just need to be able to reach out and touch it: You need to be able to really wrap your arms around it.

#### Rope Access for Inspection, Testing and Maintenance of Industrial Structures

BY KATHARINE STAY, IRATA INTERNATIONAL

(Article updated from JPCL, December 2018)

Nowadays, the application of industrial rope access is widespread throughout industry and is a globally accepted means of access. The core advantages of using rope access methods lie predominantly in the ease with which workers can safely gain access and egress from difficult-to-reach locations, often with minimal impact on other operations and surrounding areas. When compared with other means of access, a significant advantage is the reduction in man-hours and

time-at-risk associated with setup operations required to gain access in the first instance.

The absence of cumbersome access equipment facilitates work solutions at power stations, refineries and storage depots. The low spark/ignition risk with rope access methods also affirms it as a suitable solution. Where large access vehicles or structures might have insufficient room, or perhaps hinder other work, a rope access team can move around such locations

MAY-JUNE 2024 / VOL. 41, NO. 4



It is imperative that all participants of a rope access project implement correct precautions to minimize the risk of workplace dangers.

without disruption to unrelated tasks. Work undertaken can range from basic inspection and minor repair, to substantial maintenance and even removal and replacement of a structure or equipment.

Large construction projects supporting the offshore sector are often undertaken with the aid of rope access systems. For example, industrial rope access is widely used for works on derricks and similar constructions, such as floating sheerlegs. Rope access work can often be observed in practice on large ships, both at sea and while in harbor. Painting and

inspection work can be carried out above the waterline while a vessel is in port or at sea, and even between tides if this is a factor. Additionally, the inspection and repair of deep locks can also be conducted in a short period, thus minimizing the time such a facility is out of commission.

Industrial rope access is at home on unusual structures and can achieve setup and dismantling times that no other means of access can rival. Due to this, work can often be undertaken by rope access means in a timescale that avoids any disruption to the normal work carried out at the jobsite. It is for these reasons that specialist certified rope access companies can often be found undertaking inspection and maintenance work in the great ports of the world where an access structure that prevents use of a crane or similar equipment can be obstructive and disruptive.

The current global demand for clean energy has resulted in rapid growth in the renewable energy sector. In line with this drive is the increased development of wind turbines, often situated in remote locations and predominately inaccessible to other access methods. Industrial rope access offers a safe, cost-effective and flexible method of access to enable regular maintenance and repair tasks for these structures. Trained and certified rope access technicians now provide their skilled services worldwide in the renewable energy sector, conducting wind turbine blade inspection and repair, maintenance, painting and cleaning operations. Traditional rope access techniques combined with the use of advanced powered rope ascenders are now commonplace in this fast-expanding sector.

Like any other method of working at heights, the application of rope access should be regarded as a complete system in which planning, management, competence and suitable equipment are of equal importance, as each

is dependent on the other to ensure a safe system of work.

It is imperative that all participants of a rope access project implement correct precautions to minimize the risks of workplace dangers, safeguarding both employees and the public. It is ordinarily the client's duty to ensure that everyone understands the part they need to play in preparing and maintaining a safe working environment. The client therefore must be satisfied that the company chosen can do the job safely and without risks. This requires a process of due diligence, making inquiries about the competence of the rope access company, such as, do they have the right combination of skills, experience and knowledge to fulfill the work scope?

When undertaken by a professionally trained and well-supervised

workforce performing to set and establish operating procedures, industrial rope access delivers safe work practices for inspection, testing and maintenance of a wide range of industrial structures, often with significant advantages over alternative access methods.

#### Getting Down to Earth with Elevated Work Platforms

BY MICHAEL HALLIWELL, THURBER ENGINEERING LTD.

(Article updated from JPCL, March 2018)

Elevated work platforms (EWPs) are a valuable tool at the work site and allow access to areas that we could otherwise not readily reach. EWPS come in many different variants including scissor lifts, boom lifts, push-around units (i.e., for changing lights in a warehouse area) and those mounted on vehicles (like those used by utility companies). In coating and construction work, the former two are the most common.

However, they also come with their fair share of hazards that must be assessed and addressed for safe use. So how do we, as painters, avoid getting into serious trouble using EWPs?

The first step is getting the training you need before you get into the basket or onto the platform. Without appropriate training, you won't have any idea about the EWP hazards you face or what you need (to do or make use of) to mitigate those hazards.



MAY-JUNE 2024 / VOL. 41, NO. 4

#### ACCESS

The first critical piece of training you should go through is fall-arrest or fall-protection training, which covers the basics you need to know to safely and effectively use the gear that will keep you from falling from heights and also provide a level of protection against being ejected from the EWP platform if you misjudge the terrain.

The second piece of training is EWP training. Although a lift may look straightforward, there is a lot that goes into operating one safely. Do you know how to carry out the proper pre-use checks and visual inspection? What are the limits of the equipment? What sort of planning goes into successfully using a lift? The answers to these questions can be crucial when it comes to preventing injury due to an equipment failure, being able to get back to the ground in the event you are no longer in the lift basket or even helping to prevent toppling the EWP.

Fall-arrest training, personal protective equipment and learning what toggle or joystick actions cause which movements on an EWP will not prevent a worker from getting into

trouble. There are many other hazards that are somewhat unique to using an EWP, such as electrocution and entrapment, that can be easy to miss without proper job planning.

You not only need to plan for the job itself, but also for what could go wrong. The foremost question to ask during planning is, "What happens if ...?" Ask "What hazards are there in the work area?" "Are there electrical or other lines?" "Are there structures that could make maneuvering difficult or lead to entrapment?" "What is the right personal protective equipment to use with the EWP?" "Is there a basket watch to get you back to the ground if you fall off the lift and are dangling by your fall-arrest system?" "Does the basket watch know what to do to get you down?"

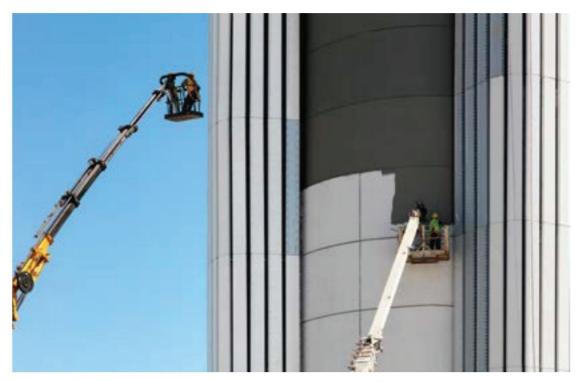
Boom lifts are not light – is the ground strong enough to support the weight? Is the terrain rough and if so, how will you access the work area with the lift? What happens if there is a crushing type of entrapment incident with the lift? What is the emergency response plan if there is

an incident, especially one at height? These and many more questions should be asked, answered, and more importantly, acted upon before any work is done using an EWP.

Once at the site, you need to make sure that the equipment is as ready to go as you are. This means carrying out the full safety checks and inspection as mandated by the manufacturer of the EWP. Full range-of-motion checks and inspections take time but can identify mechanical issues that have the potential for major consequences. After all, no worker wants to be 50 feet in the air and have a boom lock up or buckle because of an issue that should have been spotted during the safety check.

The last part of using EWPs safely is to be focused on the work and actually work the plan. You've planned for the hazards for the job, so don't create new ones. If something changes, take a moment to stop and think about how that might alter the potential for hazards. It's better to take a couple minutes to come "down to earth" and review the changes than to dive right into an incident. JPCL

You not only need to plan for the job itself, but also for what could go wrong.



OTO: DOGAVUSUEDOKDOK / GETTY IMAG



## 2024 EQUIPMENT BUYING GUIDE

equipment and related supplies for protective and marine coating work from manufacturers, distributors and rental companies. This year's edition includes listings of more than 140 equipment companies, obtained through a survey sent in April 2024 to companies known to JPCL. The Guide is divided into 10 sections (see Categories, p. 38), including Access, Application, Climate Control, Decorative Finishing, Education & Online Tools, Environmental Protection, Inspection, Laboratory Testing, Safety and Surface Preparation. An alphabetical index of suppliers is available on pages 38 and 39. Suppliers are also listed by category (beginning p. 40).

Special thanks to the suppliers whose purchase of boldfaced listings, box ads and display ads continue to sustain the JPCL directories in print and online. We encourage you to support them with your business

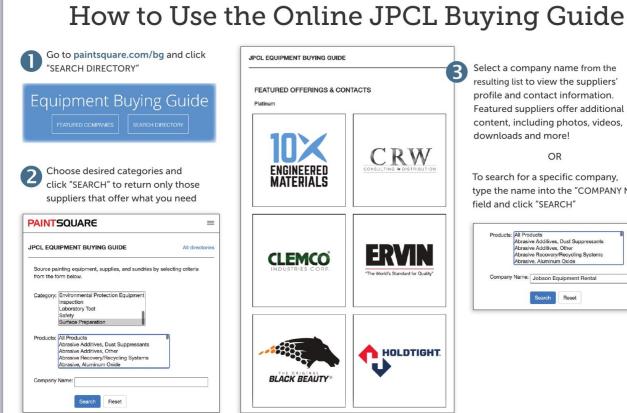
The online Guide is searchable, sortable and simple to use on desktop and mobile devices. Find it and other directories at **paintsquare.com/ebg**.

Products and companies listed in the JPCL Equipment Buying Guide are not endorsed by Technology Publishing Company, PaintSquare, JPCL or its editors.

#### EBG / INDEX

EQUIPMENT & SUPPLY CATEGORIES		Brushes, Faux	49	Hoses and Fittings	68
Access	40	Built-Up and Portable Scaffolds	40	Humidity Gages	54
Application	40	C		Hygiene Facilities, Portable	58
Climate Control	48	Cable, Rigging	40	Inspection Lights, General	54
Decorative Finishing	49	Calibration Standards	53	Inspection Lights, Ultraviolet	54
Education & Online Tools	49	Car Covers	50	L-M-N-O	
Environmental Protection	50	Caulking Guns	67	Laser Cleaning	68
Inspection	52	Caulks and Sealants	67	Laser Measures	
Laboratory Testing	56	Chemical Cleaning Materials		Lead Test Kits	
Safety	57	Color QC		Lifts	40
Surface Preparation	60	Communication Sets, Accessories		Lighting	
		Comparators, Profile		Lighting, Explosion-Proof	
EQUIPMENT & SUPPLY TYPES		Compressed Air Dryers		Masking Tape and Related Materials	
A		Compressed Air Filters		Microscopes, Field	
Abrasion Resistance Testers	56	Compressed Air Purifiers		Mitts	
		Containment, Other	50	Mixers and Agitators	
Abrasive Additives, Dust Suppressants		Materials and Equipment	50	Moisture Meters, Concrete	
Abrasive Additives, Other		Containment, Screens		Needle Pressure Gages	
Abrasive Recovery/Recycling Systems		Cooling Equipment		Nets	
Abrasive, Aluminum Oxide		Corrosion Measurement Instruments		Nozzle Orifice Gages	
Abrasive, CO2 Pellets		D-E-F	50	•	
Abrasive, Coal Slag	62	Dehumidifiers	10	Oil and Water Separators	66
Abrasive, Copper Slag	62			P	40
Abrasive, Garnet	62	Door Painting Systems		Paint Pots for Spray Painting	
Abrasive, Glass, Beads	62	Drum Crushers		Paint Remover, Heat Induction	
Abrasive, Glass, Crushed	62	Drums		Paint Strippers, Chemical	
Abrasive, Nickel Slag	64	Dust Collectors—Hand-Held Tools		Patching Materials	
Abrasive, Organic	64	Dust Collectors, Filters		Pipe, Cleaning Equipment	
Abrasive, Other	64	Ear Protection	58	Pipe, Internals, Application Equipment	
Abrasive, Plastic Media	65	Electrical Protection, Ground Fault Circuit Interrupters	50	Pit Gages	
Abrasive, Sand	65			Platforms	40
Abrasive, Soda Blast	65	Electrochemical Impedance Testers		Polishing Machines	68
Abrasive, Soft	65	Extension Poles		Polishing Pads and Tooling	68
Abrasive, Sponge	65	Eye Protection		Power Tools, Cleaning Media	68
Abrasive, Steel Grit	65	Fall Arrest Systems		Power Tools, Disc Sanders	68
Abrasive, Steel Shot		Faux Finishing Tools	50	Power Tools, Grinders	69
Adhesion Testers, Cross-Hatch		Floor Coating Tools (Squeegees, Gauge Rakes,		Power Tools, Needle Guns	69
Adhesion Testers, Tensile		Levelers, Epoxy-Terrazzo Rollers)	40	Power Tools, Rotary Hammers	69
Adhesion Testers (Laboratory)		Floor Finishing Tools		Power Tools, Rotary	
Air Compressors		Floor Sanders, Edgers		Peening Equipment	69
Air Monitoring, CO and Other Gases		Floor Scrapers, Riding		Power Tools, Scarifiers	
Air Monitoring, Co and other Gases		Foot Protection		Power Tools, Wire Brushes	
Air Monitoring, Personal,	37	G-H-I	50	Pressure Washers	69
Pumps and Calibrators	57	Generators, Portable 40, 48,	68	Profilometers	54
Ambient Air Samplers, Area Monitoring		Gloss Meters		Protective Clothing	
Atlas Testers (Laboratory)		Grinders and Planers, Concrete		Psychrometers	54
Atlas Test Cell (or other that	50			Pumps for Spray Painting	42
meets ASTM C868)	56	Hand Protection	36	Pumps, Water Blasting	69
В		Hand Tools (Wire Brushes, Scrapers, Chisels)	68	R	
Belts and Harnesses	57	Hard Hats		Replica Tape	55
Blast and Recycling Systems		Hardness Testers		Respirators, Disposable Dust Mask	58
Air Abrasive	66	Hazardous Waste Stabilizers.	50	Respirators, Negative Air,	
Blast Machines/Pots	66	Abrasive Additive	68	Cartridge-Type	58
Blast Nozzles		Hazardous Waste Stabilizers, Liquid, Gel		Respirators, Powered Air	
Blast Room Design and Construction		Heat Guns		Purifying, Cartridge-Type	58
Blasting Cabinets		Heaters		Respirators, Type CE,	-
Bosun's Chairs, Work Cages		Heaters for Spray Pumps and Hoses		Supplied-Air, Full Face Only	60
Brushes		Holiday Detectors, High Voltage		Respirators, Type CE, Supplied-Air, Hood/Helmet with Cape	60
Brushes, Art				Robotic Blasting Systems, Air Abrasive	
Diagnes, Alt	+3	Holiday Detectors, Low Voltage	55	Nobolic blasting systems, All Abrasive	09

Robotic Blasting Systems, Water	69	Spray Systems, Electrostatic	44	Thickness Gages, Wet Film	55
Robotic Spray Systems	42	Spray Systems, HVLP	46	Thickness Testers, Ultrasonic	56
Rollers, Hand-Powered	42	Spray Systems, Plural Component	46	Traffic Line Stripers	46
Rollers, Pipe	42	Squeegee Floor Coating Machines	46	Training, Equipment-Specific	50
Rollers, Pressurized	42	Steam Cleaners	70	Training, Health/	
Rust Inhibitors	69	Strainers	46	Environmental/Safety	
s		Sundries	46	Training, Workforce	
Salt Removal Chemicals	69	Suspended Scaffolds	40	Trowels, Hand	46
Scarifiers, Conventional	69	т		U-V-W	
Screens, Abrasive Separating	70	Tapes	49	Underwater Application Equipment	
Shot Blast Machines.		Tarps	52	Vacuum Blast Systems	70
Portable, Horizontal	70	Test Cabinets, Continuous Salt Spray	57	Vacuum Equipment	70
Shot Blast Machines, Portable, Vertical	70	Test Cabinets, Controlled Humidity	57	Valves	
Software, Estimating	49	Test Cabinets, Cyclic Immersion	57	Ventilation Equipment	52
Software, Project Management	49	Test Cabinets, Cyclic Salt Spray	57	Viscosity Cups	
Software, Specifying/		Test Cabinets, Moist SO2	57	Visual Standards	
Maintenance Management	49	Test Cabinets, Continuous Salt Spray	57	Waste Paint Solidifiers	52
Solvent Recovery Systems	52	Test Cabinets, UV Condensing	57	Water Blasting Lances	71
Spiked Rollers, Shoes	42	Test Cabinets, Weathering	57	Water Blasting Units,	
Spray Booths	42	Test Coupons	57	High Pressure	/1
Spray Guns	42	Test Kits, Non-Visible Contaminants	55	Water Blasting Units, Ultra-High Pressure	71
Spray Hoses and Fittings	44	Thermal Spray Equipment	46	Water Filtration Products	
Spray Nozzles and Tips	44	Thermometers, Surface Temperature	55	Water Washing Units,	JL
Spray Systems, Air	44	Thickness Gages, Dry Film, Destructive	55	Low Pressure	71
Spray Systems, Air-Assisted Airless		Thickness Gages, Dry Film, Eddy Current	55	Wet Blasting Units (Water and Abrasive)	71
Spray Systems, Airless	44	Thickness Gages, Dry Film, Magnetic	55	Wheel Blasting Units, Stationary	71



Select a company name from the resulting list to view the suppliers' profile and contact information. Featured suppliers offer additional content, including photos, videos,

type the name into the "COMPANY NAME" field and click "SEARCH"

	sive Additives, Dust Suppressants			
Abra	usive Additives, Other usive Recovery/Recycling Systems usive, Aluminum Oxide			
Company Name:	Jobson Equipment Rental			
	Search Reset			

39 MAY-JUNE 2024 / VOL. 41, NO. 4

EBG / SUPPLIERS ACCESS → APPLICATION

### Access

Scan the following QR code to search full Access listings on your mobile device.



### **BOSUN'S CHAIRS, WORK CAGES**

BrandSafway Services LLC Power Climber Inc.

### **BUILT-UP AND PORTABLE SCAFFOLDS**

BrandSafway Services LLC

### **CABLE, RIGGING**

BrandSafway Services LLC Containment Design, Inc. Eagle Industries P&L Metalcrafts, LLC Power Climber Inc. RBW Enterprises, Inc.

#### LIFTS

### **ARS Recycling Systems**

arsrecycling.com



BrandSafway Services LLC Innovative Reach LPI Lift Systems

### **PLATFORMS**

ARS Recycling Systems
Blasting Experts Inc.
BrandSafway Services LLC
Containment Design, Inc.
LPI Lift Systems
P&L Metalcrafts, LLC

### SUSPENDED SCAFFOLDS

Blasting Experts Inc.
BrandSafway Services LLC
Containment Design, Inc.
Power Climber Inc.

For more information select the Access category at paintsquare.com/ebg.

### **Application**

Scan the following QR code to search full Application listings on your mobile device.



### **AIR COMPRESSORS**

Abrasives Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph, Inc.

DryAIR by TDM

Jenny Products, Inc.

N.T. Ruddock Co.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte I td

### Quikspray, Inc.

quikspray.com

T Tex Industries LP

Victory Air & Equipment

### **BRUSHES**

Arroworthy

Imperial Paint Applicators

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Seymour Midwest LLC

T Tex Industries LP

Victory Air & Equipment

Wooster Brush Company

### **DOOR PAINTING SYSTEMS**

Bolair Fluid Handling Systems Dux Technologies, Inc. Imperial Paint Applicators

Mr. LongArm, Inc

Mr. Speeds Painting Tools

### **DRUMS**

N.T. Ruddock Co.
Paul N. Gardner Company (Gardco)
SMITH Surface-Prep Solutions
T Tex Industries LP

### **EXTENSION POLES**

Arroworthy

Bittner's Spray Equipment Co.

Graco Inc.

Imperial Paint Applicators

**Mr. LongArm, Inc.** mrlongarm.com

Seymour Midwest LLC

T Tex Industries LP

Titan Tool

Victory Air & Equipment

VR Coatings Pvt. Ltd.

Wooster Brush Company

### FLOOR COATING TOOLS (SQUEEGEES, GAUGE RAKES, LEVELERS, EPOXY-TERRAZZO ROLLERS)

Arroworthy

Panblast Pte Ltd.

Quikspray, Inc.

Seymour Midwest LLC

T Tex Industries LP

Wooster Brush Company

### **GENERATORS, PORTABLE**

Canfield & Joseph, Inc.

DeHumidification Technologies, LP

DryAIR by TDM

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Polygon US Corporation

### HEATERS FOR SPRAY PUMPS AND HOSES

Abrasives Inc

Bittner's Spray Equipment Co.

Bolair Fluid Handling Systems

Graco Inc.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte Ltd.

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

VR Coatings Pvt. Ltd.

WIWA LLC

### MASKING TAPE AND RELATED MATERIALS

Abrasives Inc.

Arroworthy

Imperial Paint Applicators

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Victory Air & Equipment

### MITTS

Arroworthy

Imperial Paint Applicators

T Tex Industries LP

Victory Air & Equipment

### **MIXERS AND AGITATORS**

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

**EBG / SUPPLIERS** APPLICATION

MIXERS AND AGITATORS CONT.

Bolair Fluid Handling Systems Canfield & Joseph Inc.

Carlisle Fluid Technologies

Graco Inc.

Imperial Paint Applicators

Mr. LongArm, Inc.

mrlongarm.com

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Paul N. Gardner Company (Gardco)

Quikspray, Inc.

quikspray.com



T Tex Industries LP Titan Tool Uni-Royal Pack Co., Ltd. Victory Air & Equipment VR Coatings Pvt. Ltd. WIWA LLC

### PAINT POTS FOR SPRAY PAINTING

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

**BCS** 

Bittner's Spray Equipment Co.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Carlisle Fluid Technologies

Dux Technologies, Inc.

Imperial Paint Applicators

In-Spec Corporation Pte Ltd.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte I td

T Tex Industries LP

Titan Tool

Victory Air & Equipment VR Coatings Pvt. Ltd.

### PIPE, INTERNALS, **APPLICATION EQUIPMENT**

Bolair Fluid Handling Systems N.T. Ruddock Co.

Panblast Pte Ltd.

Paul N. Gardner Company (Gardco) Remote Orbital Installations, LLC

T Tex Industries LP Uni-Royal Pack Co., Ltd. Victory Air & Equipment VR Coatings Pvt. Ltd. WIWALLC.

### **PUMPS FOR SPRAY PAINTING**

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies) Bittner's Spray Equipment Co. **Bolair Fluid Handling Systems** Canfield & Joseph Inc.

Carlisle Fluid Technologies carlisleft.com



Graco Inc.

Imperial Paint Applicators

In-Spec Corporation Pte Ltd.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte Ltd.

Quikspray, Inc.

T Tex Industries LP

Titan Tool

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

WIWA LLC

### **ROBOTIC SPRAY SYSTEMS**

Bolair Fluid Handling Systems Carlisle Fluid Technologies

Dux Technologies, Inc.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Remote Orbital Installations 11C

T Tex Industries LP

TMS Metalizing Systems, Ltd.

Uni-Royal Pack Co., Ltd.

VR Coatings Pvt. Ltd.

### **ROLLERS, HAND-POWERED**

Imperial Paint Applicators

Mr. LongArm, Inc.

mrlongarm.com

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

T Tex Industries LP

Titan Tool Uni-Royal Pack Co., Ltd. Victory Air & Equipment

Wooster Brush Company

**ROLLERS, PIPE** 

Wooster Brush Company

### **ROLLERS, PRESSURIZED**

Bittner's Spray Equipment Co. Imperial Paint Applicators T Tex Industries LP Titan Tool Uni-Royal Pack Co., Ltd. Victory Air & Equipment

#### SPIKED ROLLERS, SHOES

Imperial Paint Applicators Seymour Midwest LLC T Tex Industries LP Wooster Brush Company

### SPRAY BOOTHS

Abrasives Inc. Blasting Experts Inc. Bolair Fluid Handling Systems Canfield & Joseph Inc. Panblast Pte Ltd. Paul N. Gardner Company (Gardco) T Tex Industries LP TMS Metalizing Systems, Ltd. Victory Air & Equipment VR Coatings Pvt. Ltd.

### **SPRAY GUNS**

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies) Bittner's Spray Equipment Co. Bolair Fluid Handling Systems Canfield & Joseph Inc.

Carlisle Fluid Technologies carlisleft.com

Zip Wall Dust Barrier System



Dux Technologies, Inc. Elcometer, Inc. Graco Inc. Imperial Paint Applicators EBG / SUPPLIERS APPLICATION

SPRAY GUNS CONT.

Panblast Pte Ltd.

Paul N. Gardner Company (Gardco)

Quikspray, Inc.

Remote Orbital Installations, LLC

T Tex Industries LP

Titan Tool

TMS Metalizing Systems, Ltd.

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

WIWA LLC

### **SPRAY HOSES AND FITTINGS**

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

Bittner's Spray Equipment Co.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Carlisle Fluid Technologies

Dux Technologies, Inc.

Elcometer, Inc.

Graco Inc.

Imperial Paint Applicators

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte Ltd.

Quikspray, Inc.

T Tex Industries LP

Titan Tool

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

WIWA LLC

### **SPRAY NOZZLES AND TIPS**

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

Bittner's Spray Equipment Co.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Carlisle Fluid Technologies

Dux Technologies, Inc.

Elcometer, Inc.

Graco Inc.

Imperial Paint Applicators

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte Ltd.

### Quikspray, Inc.

quikspray.com



T Tex Industries LP Titan Tool TMS Metalizing Systems, Ltd. Uni-Royal Pack Co., Ltd. Victory Air & Equipment VR Coatings Pvt. Ltd. WIWA LLC

### **SPRAY SYSTEMS, AIR**

Abrasives Inc.

Bittner's Spray Equipment Co. Bolair Fluid Handling Systems Canfield & Joseph Inc.

### Carlisle Fluid Technologies

carlisleft.com



Desco Mfg. Co., Inc.
Dux Technologies, Inc.
Graco Inc.
Imperial Paint Applicators
In-Spec Corporation Pte Ltd.
T Tex Industries LP
Titan Tool
Uni-Royal Pack Co., Ltd.
Victory Air & Equipment
VR Coatings Pvt. Ltd.
WIWA LLC

### SPRAY SYSTEMS, AIR-ASSISTED AIRLESS

Abrasives Inc.

Bittner's Spray Equipment Co. Bolair Fluid Handling Systems Canfield & Joseph Inc.

### Carlisle Fluid Technologies

carlisleft.com



Graco Inc. Imperial Pa

Imperial Paint Applicators
In-Spec Corporation Pte Ltd.

Panblast Pte Ltd.

T Tex Industries LP

Titan Tool

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

WIWA LLC

### SPRAY SYSTEMS, AIRLESS

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

Bittner's Spray Equipment Co. Bolair Fluid Handling Systems

Carlisle Fluid Technologies carlisleft.com

Canfield & Joseph Inc.



Graco Inc.

Imperial Paint Applicators

In-Spec Corporation Pte Ltd.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Panblast Pte Ltd.

T Tex Industries LP

Titan Tool

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

WIWA LLC

### SPRAY SYSTEMS, ELECTROSTATIC

Abrasives Inc.

Bittner's Spray Equipment Co. Bolair Fluid Handling Systems



### **LET'S CONNECT**

Stay in touch with our coatings industry community: facebook.com/paintsquare



EBG / SUPPLIERS APPLICATION

SPRAY SYSTEMS, ELECTROSTATIC CONT.
Carlisle Fluid Technologies
Graco Inc.
Imperial Paint Applicators
T Tex Industries LP
Titan Tool
Uni-Royal Pack Co., Ltd.
VR Coatings Pvt. Ltd.

### SPRAY SYSTEMS, HVLP

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

Bittner's Spray Equipment Co.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Carlisle Fluid Technologies

Dux Technologies, Inc.

Graco Inc.

Imperial Paint Applicators

Quikspray, Inc.

T Tex Industries LP

Titan Tool

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

### **SPRAY SYSTEMS, PLURAL COMPONENT**

Abrasives Inc.

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

Arma Coatings

Bittner's Spray Equipment Co.

Bolair Fluid Handling Systems

Carlisle Fluid Technologies

Graco Inc.

In-Spec Corporation Pte Ltd.

Oak Ridge Foam and Coating Systems/ Franklin Consulting Services, LLC

Remote Orbital Installations, LLC

T Tex Industries LP

Titan Tool

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

VR Coatings Pvt. Ltd.

WIWA LLC

MIDWEST RAKE

### **SQUEEGEE FLOOR COATING MACHINES**

APPLIED Adhesives (dba AST/ Adhesive Systems Technologies)

### Quikspray, Inc.

quikspray.com

Victory Air & Equipment

### **STRAINERS**

Bittner's Spray Equipment Co.
Canfield & Joseph, Inc.
Imperial Paint Applicators
Paul N. Gardner Company (Gardco)
T Tex Industries LP
Uni-Royal Pack Co., Ltd.
Victory Air & Equipment

#### SUNDRIES

Canfield & Joseph, Inc. Imperial Paint Applicators

Mr. LongArm, Inc.

mrlongarm.com

Seymour Midwest LLC

T Tex Industries LP

Tower Sealants / M-D Building

U-C Coatings, LLC

Victory Air & Equipment

#### THERMAL SPRAY EQUIPMENT

Titan Tool

TMS Metalizing Systems, Ltd. Uni-Royal Pack Co., Ltd.

### TRAFFIC LINE STRIPERS

Abrasives Inc.

Bittner's Spray Equipment Co. Bolair Fluid Handling Systems Graco Inc.

Imperial Paint Applicators

T Tex Industries LP

Titan Tool

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

### **TROWELS, HAND**

Seymour Midwest LLC



• EMAIL: CUSTOMER.SERVICE@SEYMOURMIDWEST.COM



Stay in touch with our coatings industry community: twitter.com/paintsquare



### UNDERWATER APPLICATION EQUIPMENT

**Quikspray, Inc.** quikspray.com

### **TOUGH APPLICATION?**



Epoxy Coatings Cements Fireproofers Deck Coatings Grouts Waterproofers

THE CARROUSEL® PUMP & U-BLEND MIXER WILL DO THEM ALL!

419-732-2611 QUIKSPRAY.COM



### Climate Control

Scan the following QR code to search full Climate Control listings on your mobile device.



#### **COOLING EQUIPMENT**

Axxiom Manufacturing, Inc.
Blasting Experts Inc.
Bullard
Canfield & Joseph Inc.
DeHumidification Technologies, LP
DryAIR by TDM
Munters Corporation
N.T. Ruddock Co.
Panblast Pte Ltd.

Polygon US Corporation Rapid Prep

### **DEHUMIDIFIERS**

Axxiom Manufacturing, Inc.
Blasting Experts Inc.
Climate by Design International
DeHumidification Technologies, LP
Munters Corporation
Panblast Pte Ltd.
Polygon US Corporation
Rapid Prep
T Tex Industries LP
Uni-Royal Pack Co., Ltd.
Victory Air & Equipment

### **GENERATORS, PORTABLE**

Canfield & Joseph, Inc.
DeHumidification Technologies, LP
DryAIR by TDM
Polygon US Corporation

#### **HEATERS**

Airblast AFC
DeHumidification Technologies, LP



Stay in touch with our coatings industry community: instagram.com/paintsquare



Munters Corporation Polygon US Corporation Rapid Prep

### LIGHTING

Airblast AFC BCS

Canfield & Joseph Inc.

Kleen Blast Abrasives Warehouse

LPI Lift Systems

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

N.T. Ruddock Co.

Rapid Prep

Safety Lamp of Houston

T Tex Industries LP

Victory Air & Equipment

### **LIGHTING, EXPLOSION-PROOF**

Airblast AFC

BCS

Blasting Experts Inc.

Canfield & Joseph Inc.

Kleen Blast Abrasives Warehouse

LPI Lift Systems

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

N.T. Ruddock Co.

Rapid Prep

Safety Lamp of Houston

T Tex Industries LP

Victory Air & Equipment

## Decorative Finishing

Scan the following QR code to search full Decorative Finishing listings on your mobile device.



### **BRUSHES, ART**

Arroworthy Imperial Paint Applicators

### **BRUSHES, FAUX**

Arroworthy

### **TAPES**

Arroworthy
Eagle Industries
Elcometer, Inc.

### Education/ Online Tools

Scan the following QR code to search full Education/ Online Tools listings on your mobile device.



### SOFTWARE, ESTIMATING

TurtleSoft LLC

### **SOFTWARE, PROJECT MANAGEMENT**

TurtleSoft LLC

### SOFTWARE, SPECIFYING/ MAINTENANCE MANAGEMENT

KTA-Tator, Inc. TurtleSoft LLC



MAY-JUNE 2024 / VOL. 41, NO. 4

### TRAINING, EQUIPMENT-SPECIFIC

ARS Recycling Systems
Blasting Experts Inc.
Global Training Solutions Inc.
In-Spec Corporation Pte Ltd.
Julbert, Inc.
KTA-Tator, Inc.
Panblast Pte Ltd.
TMS Metalizing Systems, Ltd.
VRSim

### TRAINING, HEALTH/ ENVIRONMENTAL/SAFETY

Elcometer Education Institute Global Training Solutions Inc. Panblast Pte Ltd.

TMS Metalizing Systems, Ltd.

### TRAINING, WORKFORCE

Elcometer Education Institute

For more information select the Education/Online Tools category at paintsquare.com/ebg.

Global Training Solutions Inc. In-Spec Corporation Pte Ltd. KTA-Tator, Inc. Panblast Pte Ltd. TMS Metalizing Systems, Ltd. VRSim

## Environmental Protection

Scan the following QR code to search full Environmental Protection listings on your mobile device.



### AMBIENT AIR SAMPLERS, AREA MONITORING

Abrasives Inc.

DeHumidification Technologies, LP KTA-Tator, Inc. Panblast Pte Ltd. Polygon US Corporation T Tex Industries LP

### **CAR COVERS**

BCS

Detroit Tarp, Inc.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

### CONTAINMENT, OTHER MATERIALS AND EQUIPMENT

ARS Recycling Systems Atlantic Design Inc.

**BCS** 

Blasting Experts Inc.

Clean&Safe

Detroit Tarp, Inc.

Eagle Industries

Indian Valley Industries, Inc.

Julbert, Inc.

Panblast Pte Ltd.



### **Pro-Tect Plastic and Supply, Inc.** shrinkwrapcontainments.com



RBW Enterprises, Inc. T Tex Industries LP

Tarps Manufacturing, Inc. tarpsmanufacturing.com



Uni-Royal Pack Co., Ltd. Victory Air & Equipment Zip Wall Dust Barrier System

### **CONTAINMENT, SCREENS**

Atlantic Design Inc.

**BCS** 

Canfield & Joseph Inc.

Detroit Tarp, Inc.

**Eagle Industries** 

Indian Valley Industries, Inc.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Panblast Pte Ltd.

Pro-Tect Plastic and Supply, Inc.

T Tex Industries LP

Victory Air & Equipment

Zip Wall Dust Barrier System

#### **DRUM CRUSHERS**

T Tex Industries LP

### DUST COLLECTORS - HAND HELD TOOLS

Aargo Environmental, Inc.

Abrasives Inc.

Airtec Ltd.

ARS Recycling Systems

BCS

Canfield & Joseph Inc.

DeHumidification Technologies, LP

Desco Mfg. Co., Inc.

Eagle Industries

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### **DUST COLLECTORS, FILTERS**

Aargo Environmental, Inc.

Abrasives Inc.

**ABS Blast** 

Airtec Ltd.

**ARS Recycling Systems** 

www.arsrecycling.com



Atlantic Design Inc.

RCS

Canfield & Joseph Inc.

DeHumidification Technologies, LP

Eagle Industries

Friess Equipment, Inc.

Goff Inc.

Gritco Equipment B.V.

For more information on environmental protection equipment suppliers, select the Environmental Protection category at paintsquare.com/ebg.

# Dust Collectors from 6,000 to 40,000 CFM XH Duty ASME Code Quality Fabrication



"OUR UNITS REALLY SUCK"

Sales, Rentals & Leasing

Custom Design Fabrication

30 Years of Experience!

Airflow Suction Rated @ 15" Static Pressure



476 Shannon Lane, Priest River, ID 83856 - Phone: (208) 448-4440 - www.julbertinc.com





(877) 584-1900 tarpsmanufacturing.com



DUST COLLECTORS, FILTERS CONT.

**Industrial Vacuum Equipment Corp.** industrial vacuum.com



Julbert Inc.

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

RBW Enterprises, Inc.

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

Tysa Inc.

Victory Air & Equipment

### **SOLVENT RECOVERY SYSTEMS**

Abrasives Inc.

Bolair Fluid Handling Systems

N.T. Ruddock Co.

Persyst Enterprises, Inc.

T Tex Industries LP

Victory Air & Equipment

### **TARPS**

Arroworthy

**BCS** 

Canfield & Joseph, Inc.

Clean&Safe

Detroit Tarp, Inc.

Eagle Industries

Indian Valley Industries, Inc.

Kleen Blast Abrasives Warehouse

KS International, Inc.

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

Pro-Tect Plastic and Supply, Inc.

T Tex Industries LP

### Tarps Manufacturing, Inc.

tarpsmanufacturing.com



Victory Air & Equipment

### **VENTILATION EQUIPMENT**

Abrasives Inc.

ABS Blast

BCS

Blasting Experts Inc.

Canfield & Joseph Inc.

DeHumidification Technologies, LP

Eagle Industries

Elcometer, Inc.

Julbert, Inc.

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Panblast Pte Ltd.

Polygon US Corporation

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### **WASTE PAINT SOLIDIFIERS**

Canfield & Joseph T Tex Industries LP

### WATER FILTRATION PRODUCTS

Hydro Quip, Inc.

Kleen Blast Abrasives Warehouse RWI Enhanced Evaporation

### Inspection

Scan the following QR code to search full Inspection listings on your mobile device.



### ADHESION TESTERS, CROSS-HATCH

BCS

Blasting Experts Inc.

BYK-Gardner USA

#### INSPECTION

Canfield & Joseph, Inc.

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco) SEMicro Div., M.E. Taylor Engr. Inc.

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **ADHESION TESTERS, TENSILE**

BYK-Gardner USA

Canfield & Joseph, Inc.

DeFelsko Corporation

Floometer Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

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

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **CALIBRATION STANDARDS**

Abrasives Inc.

**BCS** 

Blasting Experts Inc.

BYK-Gardner USA

Canfield & Joseph, Inc.

DeFelsko Corporation

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

### Fischer Technologies, Inc.

helmut-fischer.com



In-Spec Corporation Pte Ltd.

James Instruments Inc.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **COMPARATORS, PROFILE**

Canfield & Joseph Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **GLOSS METERS**

BYK-Gardner USA

Canfield & Joseph, Inc.

DeFelsko Corporation

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

### **HOLIDAY DETECTORS, HIGH VOLTAGE**

RCS

Blasting Experts Inc.

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

In-Spec Corporation Pte Ltd.

James Instruments Inc.

KTA-Tator, Inc. KTAGage.com



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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

Wegener Welding LLC

### HOLIDAY DETECTORS, **LOW VOLTAGE**

Blasting Experts Inc.

Canfield & Joseph Inc.

DeFelsko Corporation

### The New **DMP SERIES**

Non-destructive coating thickness measurement



Coating thickness measurement on ferrous and non-ferrous substrates.

- Built to last all aluminum casing, IP64, scratch and chemical resistant, soft bumpers to protect from impact
- Feedback during the measurement - sound, vibration, and light
- Rechargeable battery, quick to change, lasts more than 24 hours
- Fast & easy data transfer, report generation using Fischer Tactile-Suite
- Advanced digital probes stores and recalls application parameters

### **Measuring Made Easy**

(860)683-0781

www.fischer-technology.com info@fischer-technology.com



MAY-JUNE 2024 / VOI 41 NO 4

EBG / SUPPLIERS INSPECTION

HOLIDAY DETECTORS, LOW VOLTAGE CONT.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

James Instruments Inc.

KTA-Tator, Inc.

KTAGage.com

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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

Wegener Welding LLC

### **HUMIDITY GAGES**

BYK-Gardner USA

DeFelsko Corporation

DeHumidification Technologies, LP

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

Polygon US Corporation

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### INSPECTION LIGHTS, GENERAL

Abrasives Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

LPI Lift Systems

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

Paul N. Gardner Company (Gardco)

Safety Lamp of Houston

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### INSPECTION LIGHTS, ULTRAVIOLET

Abrasives Inc.

**BCS** 

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

### LASER MEASURES

Abrasives Inc.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

### **LEAD TEST KITS**

Abrasives Inc.

Elcometer, Inc.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

#### MICROSCOPES, FIELD

BYK-Gardner USA

Elcometer, Inc.

KTA-Tator, Inc.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Paul N. Gardner Company (Gardco)

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

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### MOISTURE METERS, CONCRETE

BYK-Gardner USA

Canfield & Joseph, Inc.

DeFelsko Corporation

DeHumidification Technologies, LP

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

James Instruments Inc.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

Polygon US Corporation

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **NEEDLE PRESSURE GAGES**

Abrasives Inc.

Axxiom Manufacturing, Inc.

**BCS** 

Blasting Experts Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Panblast Pte Ltd.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

#### **NOZZLE ORIFICE GAGES**

Abrasives Inc.

Axxiom Manufacturing, Inc.

Blasting Experts Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### PIT GAGES

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco) T Tex Industries LP

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

### PROFILOMETERS

Abrasives Inc

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

KTA-Tator, Inc.

N.T. Ruddock Co.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **PSYCHROMETERS**

Blasting Experts Inc.

Canfield & Joseph Inc.

DeHumidification Technologies, LP

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

Mod-U-Blast Mfg.

KTA-Tator, Inc.

Manus Abrasive Systems, Inc./

Paul N. Gardner Company (Gardco)

T Tex Industries LP

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

INSPECTION SUPPLIERS / EBG

### **REPLICA TAPE**

Blasting Experts Inc.

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Testex

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **TEST KITS, NON-VISIBLE CONTAMINANTS**

Blasting Experts Inc.

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

HoldTight Solutions

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives Warehouse

KTA-Tator, Inc.

KTAGage.com



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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### THERMOMETERS, SURFACE TEMPERATURE

Blasting Experts Inc.

BYK-Gardner USA

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

Polygon US Corporation

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### THICKNESS GAGES, DRY FILM, DESTRUCTIVE

Abrasives Inc.

Blasting Experts Inc.

BYK-Gardner USA

Canfield & Joseph Inc.

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### THICKNESS GAGES, DRY FILM, EDDY CURRENT

Abrasives Inc.

Blasting Experts Inc.

BYK-Gardner USA

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

### Fischer Technologies, Inc.

helmut-fischer.com



In-Spec Corporation Pte Ltd.

### KTA-Tator, Inc.

KTAGage.com



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

Paul N. Gardner Company (Gardco)

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

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### THICKNESS GAGES, DRY FILM, MAGNETIC

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

### Fischer Technologies, Inc.

helmut-fischer.com



In-Spec Corporation Pte Ltd.

### KTA-Tator, Inc.

KTAGage.com

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

Paul N. Gardner Company (Gardco)

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

T Tex Industries LP

TMS Metalizing Systems, Ltd.

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### THICKNESS GAGES, WET FILM

Abrasives Inc.

Blasting Experts Inc.

BYK-Gardner USA

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

#### THICKNESS TESTERS, ULTRASONIC

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph Inc.

DeFelsko Corporation

Elcometer, Inc.

ElektroPhysik Dr. Steingroever GmbH & Co. KG

In-Spec Corporation Pte Ltd.

James Instruments Inc.

KTA-Tator, Inc.

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

Paul N. Gardner Company (Gardco) SEMicro Div., M.E. Taylor Engr. Inc.

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

#### **VISCOSITY CUPS**

BYK-Gardner USA

Canfield & Joseph, Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### VISUAL STANDARDS

Blasting Experts Inc.

BYK-Gardner USA

Canfield & Joseph, Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

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

N.T. Ruddock Co.

Paul N. Gardner Company (Gardco)

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

### **Laboratory Test**

Scan the following QR code to search full Laboratory Test listings on your mobile device.



### ABRASION RESISTANCE TESTERS

BYK-Gardner USA

Canfield & Joseph Inc.

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

Paul N. Gardner Company (Gardco)

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### ADHESION TESTERS (LABORATORY)

Atlas

BYK-Gardner USA

DeFelsko Corporation

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

Paul N. Gardner Company (Gardco)

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

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

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

Atlas

### **COLOR QC**

Atlas

BYK-Gardner USA

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

Uni-Royal Pack Co., Ltd.

### CORROSION MEASUREMENT INSTRUMENTS

Atlas

DeFelsko Corporation

Elcometer, Inc.

Fischer Technologies, Inc.

helmut-fischer.com



James Instruments Inc.

Kleen Blast Abrasives Warehouse

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

### ELECTROCHEMICAL IMPEDANCE TESTERS

Paul N. Gardner Company (Gardco)

### **GLOSS METERS**

BYK-Gardner USA

Canfield & Joseph

DeFelsko Corporation

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

KTA-Tator, Inc.

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

### HARDNESS TESTERS

BYK-Gardner USA

Canfield & Joseph, Inc.

DeFelsko Corporation

Elcometer, Inc.

In-Spec Corporation Pte Ltd.

James Instruments Inc.

KTA-Tator, Inc.

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



SAFETY SUPPLIERS / EBG

Paul N. Gardner Company (Gardco)

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### TEST CABINETS, CONTINUOUS SALT SPRAY

Atlas

Paul N. Gardner Company (Gardco)

### **TEST CABINETS, CONTROLLED HUMIDITY**

Atlas

### **TEST CABINETS, CYCLIC IMMERSION**

Atlas

### **TEST CABINETS, CYCLIC SALT SPRAY**

Λtla

Paul N. Gardner Company (Gardco)

### **TEST CABINETS, MOIST SO2**

Atlas

### **TEST CABINETS, UV CONDENSING**

Atlas

### **TEST CABINETS, WEATHERING**

Atlas

### **TEST COUPONS**

Elcometer, Inc.

KTA-Tator, Inc.

T Tex Industries LP

TMS Metalizing Systems, Ltd.

### Safety

Scan the following QR code to search full Safety listings on your mobile device.



### AIR COMPRESSORS

Abrasives Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph Inc.

DryAIR by TDM

Jenny Products, Inc.

Julbert, Inc.

Panblast Pte Ltd.

T Tex Industries LP

Victory Air & Equipment

### AIR MONITORING, CO AND OTHER GASES

Abrasives Inc.

**BCS** 

Blasting Experts Inc.

Bullard

Canfield & Joseph Inc.

Gritco Equipment B.V.

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Polygon US Corporation

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### AIR MONITORING, PERSONAL

Abrasives Inc.

**BCS** 

Blasting Experts Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

Kleen Blast Abrasives Warehouse

Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### AIR MONITORING, PERSONAL, PUMPS AND CALIBRATORS

Abrasives Inc.

Blasting Experts Inc.

Bullard

Canfield & Joseph Inc.

DeHumidification Technologies, LP

Kleen Blast Abrasives Warehouse

Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### **BELTS AND HARNESSES**

Abrasives Inc.

Canfield & Joseph Inc.

Imperial Paint Applicators



**EBG / SUPPLIERS** SAFETY

BELTS AND HARNESSES CONT.

T Tex Industries I P

### **COMMUNICATION SETS, ACCESSORIES**

Abrasives Inc.

RCS

Canfield & Joseph Inc.

Elcometer, Inc.

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### **COMPRESSED AIR PURIFIERS**

Abrasives Inc.

Bullard

Canfield & Joseph, Inc.

DryAIR by TDM

Gritco Equipment B.V.

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

### **Modern Safety Techniques**

modsafe.com



Panblast Pte Ltd. Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### **EAR PROTECTION**

Aargo Environmental, Inc.

Abrasives Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

Imperial Paint Applicators

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

Radians, Inc.

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### **ELECTRICAL PROTECTION, GROUND FAULT CIRCUIT INTERRUPTERS**

Ahrasives Inc

### **EYE PROTECTION**

Aargo Environmental, Inc.

Abrasives Inc.

Canfield & Joseph Inc.

Elcometer Inc.

Imperial Paint Applicators

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

NLB Corp.

Panblast Pte Ltd.

Paul N. Gardner Company (Gardco)

Radians, Inc.

Rapid Prep

T Tex Industries LP

Tysa Inc.

Victory Air & Equipment

### **FALL ARREST SYSTEMS**

Abrasives Inc.

Canfield & Joseph Inc.

T Tex Industries LP

### **FOOT PROTECTION**

NLB Corp.

Canfield & Joseph Inc.

### HAND PROTECTION

Aargo Environmental, Inc.

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

NLB Corp.

Panblast Pte Ltd.

Radians, Inc.

Rapid Prep

### **HARD HATS**

Aargo Environmental, Inc.

Abrasives Inc.

Blasting Experts Inc.

Bullard

Canfield & Joseph Inc.

Elcometer, Inc.

Imperial Paint Applicators

Kleen Blast Abrasives Warehouse

N.T. Ruddock Co.

Radians Inc.

Uni-Royal Pack Co., Ltd.

### **HYGIENE FACILITIES, PORTABLE**

Canfield & Joseph Inc.

Eagle Industries

Rapid Prep

T Tex Industries LP

BrandSafway Services LLC

**Eagle Industries** 

### PROTECTIVE CLOTHING

Aargo Environmental, Inc.

Abrasives Inc.

Axxiom Manufacturing, Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Elcometer, Inc.

Gritco Equipment B.V.

Kleen Blast Abrasives Warehouse

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

NLB Corp.

N.T. Ruddock Co.

Panblast Pte Ltd.

Radians, Inc.

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### RESPIRATORS, DISPOSABLE DUST MASK

Aargo Environmental, Inc.

Abrasives Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Imperial Paint Applicators

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Radians, Inc.

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### RESPIRATORS, NEGATIVE AIR, **CARTRIDGE-TYPE**

Aargo Environmental, Inc.

Abrasives Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Kleen Blast Abrasives Warehouse

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

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

Abrasives Inc.

RCS

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph Inc.

Gritco Equipment B.V.

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### RESPIRATORS, TYPE CE, SUPPLIED-AIR, FULL FACE ONLY

Aargo Environmental, Inc.

Abrasives Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph Inc.

Gritco Equipment B.V.

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### RESPIRATORS, TYPE CE, SUPPLIED-AIR, HOOD/HELMET WITH CAPE

Aargo Environmental, Inc.

Abrasives Inc.

Axxiom Manufacturing, Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph Inc.

Elcometer, Inc.

Gritco Equipment B.V.

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### Surface Preparation

Scan the following QR code to search full Surface Preparation listings on your mobile device.



### ABRASIVE ADDITIVES, DUST SUPPRESSANTS

Abrasives Inc.

Accumet Materials Company

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph, Inc.

Ensio Resources, Inc.

Graco Inc.

Harsco Minerals

MineralTech Gulf Coast Abrasives, LLC

N.T. Ruddock Co.

Opta Waterdown Inc.

T Tex Industries LP

Victory Air & Equipment

Vulkan Blast Shot Technology

### **ABRASIVE ADDITIVES, OTHER**

Abrasives Inc.

Accumet Materials Company

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph, Inc.

Ensio Resources, Inc.

### Harsco Minerals

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

MineralTech Gulf Coast Abrasives, LLC

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

**Vulkan Blast Shot Technology** 

vulkanshot.com



800-263-7674 | www.vulkanshot.com

### ABRASIVE RECOVERY/RECYCLING SYSTEMS

Aargo Environmental, Inc.

Abrasives Inc.

ABS Blast

**Accumet Materials Company** 

Airblast AFC

**ARS Recycling Systems** 

www.arsrecycling.com



e: info@arsrecyclong.com





Atlantic Design Inc.

Axxiom Manufacturing, Inc.

BCS

Blasting Experts Inc.

Canfield & Joseph Inc.

Friess Equipment, Inc.

**IDS Blast** 

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Titan Abrasive Systems LLC

**Unified Technologies** 

Victory Air & Equipment

### ABRASIVE, ALUMINUM OXIDE

Abrasives Inc

Accumet Materials Company

Arroworthy

BCS

Blasting Experts Inc.

Browns Hill Sand

For more details on surface preparation equipment suppliers, select the Surface Preparation category at paintsquare.com/ebg.

EBG / SUPPLIERS SURFACE PREPARATION

ABRASIVE, ALUMINUM OXIDE CONT.

Canfield & Joseph Inc.

Desco Mfg. Co., Inc.

Friess Equipment, Inc.

**IDS Blast** 

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

T Tex Industries LP

Victory Air & Equipment

### **Vulkan Blast Shot Technology**

vulkanshot.com



800-263-7674 | www.vulkanshot.com

### **ABRASIVE, CO<sub>2</sub> PELLETS**

Canfield & Joseph, Inc. Friess Equipment, Inc.

### **ABRASIVE, COAL SLAG**

Abrasives Inc.

BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Ensio Resources, Inc.

### Flat Rock Bagging

flatrockbagging.com

Harsco Minerals

**IDS Blast** 

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

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

T Tex Industries LP

Victory Air & Equipment

### ABRASIVE, COPPER SLAG

BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Ensio Resources, Inc.

Harsco Minerals

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Coast Abrasives, LLC

N.T. Ruddock Co.

MineralTech Gulf

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **ABRASIVE, GARNET**

Abrasives Inc.

Arroworthy

Atlantic Design Inc.

### **Barton International**

barton.com



BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Desco Mfg. Co., Inc.

**IDS Blast** 

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

MineralTech Gulf

Coast Abrasives, LLC

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### Vulkan Blast Shot Technology

vulkanshot.com



800-263-7674 | www.vulkanshot.com

### ABRASIVE, GLASS, BEADS

Abrasives Inc.

BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Friess Equipment, Inc.

**IDS** Blast

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

MineralTech Gulf Coast Abrasives, LLC

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC Rapid Prep

Scangrit

T Tex Industries LP

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### Vulkan Blast Shot Technology

vulkanshot.com



800-263-7674 | www.vulkanshot.com

### ABRASIVE, GLASS, CRUSHED

Abrasives Inc.

BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph, Inc.

Ensio Resources, Inc.

Flat Rock Bagging

flatrockbagging.com Friess Equipment, Inc.

Harsco Minerals

EBG / SUPPLIERS SURFACE PREPARATION

ABRASIVE, GLASS, CRUSHED CONT.

IDS Blast

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

MineralTech Gulf Coast Abrasives, LLC

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

Strategic Materials Inc.

T Tex Industries LP

TriVitro Corporation

Victory Air & Equipment

### ABRASIVE, NICKEL SLAG

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Manus Abrasive Systems, Inc./ Mod-U-Blast Mfg. MineralTech Gulf Coast Abrasives, LLC

Pellets, LLC

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

#### **ABRASIVE, ORGANIC**

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph, Inc.

**IDS** Blast

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Scangrit

T Tex Industries LP

Victory Air & Equipment

### **ABRASIVE, OTHER**

10X Engineered Materials, LLC

Abrasives Inc.

Arroworthy

### Barton International

barton.com



BCS

Blasting Experts Inc.

Browns Hill Sand

Desco Mfg. Co., Inc.

Desmond Mfg. Co.

Ervin Industries, Inc.

**IDS Blast** 

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

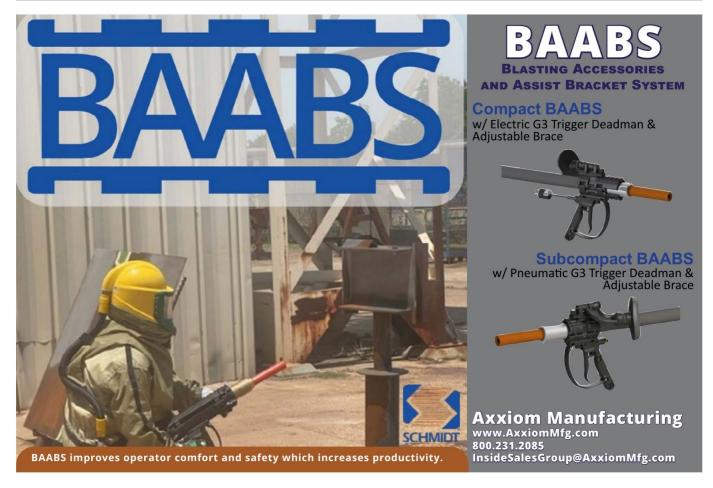
Mod-U-Blast Mfg.

MineralTech Gulf Coast Abrasives, LLC

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC



SURFACE PREPARATION SUPPLIERS / EBG

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Vulkan Blast Shot Technology

### **ABRASIVE, PLASTIC MEDIA**

Abrasives Inc.

**BCS** 

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Desco Mfg. Co., Inc.

IDS Blast

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

T Tex Industries LP

#### ABRASIVE, SAND

Abrasives Inc.

**Barton International** 

barton.com



<0.1% Respirable Crystalline Silica

Blasting Experts Inc. Browns Hill Sand

Browns Hill Sand

Flat Rock Bagging

flatrockbagging.com

IDS Blast

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

MineralTech Gulf Coast Abrasives, LLC

Rapid Prep

T Tex Industries LP

### **ABRASIVE, SODA BLAST**

Abrasives Inc.

BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Friess Equipment, Inc.

Gritco Equipment B.V.

IDS Blast

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

MOG-U-Blast M

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### **ABRASIVE, SOFT**

Abrasives Inc

Browns Hill Sand

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

Ervin Industries, Inc.

**IDS Blast** 

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

T Tex Industries LP

Victory Air & Equipment

### **ABRASIVE, SPONGE**

Arroworthy

In-Spec Corporation Pte Ltd.

### **ABRASIVE, STEEL GRIT**

Abrasives Inc.

Arroworthy

Atlantic Design Inc.

BCS

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Desmond Mfg. Co.

Ervin Industries, Inc.

Friess Equipment, Inc.

**IDS Blast** 

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

MineralTech Gulf Coast Abrasives, LLC

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

T Tex Industries LP

**Unified Technologies** 

Uni-Royal Pack Co., Ltd.

Victory Air & Equipment

### **Vulkan Blast Shot Technology**

vulkanshot.com



800-263-7674 | www.vulkanshot.com

### **ABRASIVE, STEEL SHOT**

Abrasives Inc.

**BCS** 

Blasting Experts Inc.

Browns Hill Sand

Canfield & Joseph Inc.

Desco Mfg. Co., Inc.

Ervin Industries, Inc.

Friess Equipment, Inc.

IDS Blast

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg. MineralTech Gulf

Coast Abrasives, LLC

N.T. Ruddock Co.

Opta Waterdown Inc.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

Scangrit

T Tex Industries LP

Unified Technologies

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

Vulkan Blast Shot Technology vulkanshot.com



800-263-7674 | www.vulkanshot.com

### AIR COMPRESSORS

Abrasives Inc.

EBG / SUPPLIERS SURFACE PREPARATION

AIR COMPRESSORS CONT.

**ABS Blast** 

Atlantic Design Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph Inc.

DryAIR by TDM

**IDS Blast** 

Jenny Products, Inc.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Panblast Pte Ltd.

Quikspray, Inc.

T Tex Industries LP

Victory Air & Equipment

### BLAST AND RECYCLING SYSTEMS, AIR ABRASIVE

Abrasives Inc.

**ABS Blast** 

Airblast AFC

ARS Recycling Systems

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

BCS

Blasting Experts Inc.

Canfield & Joseph Inc.

Friess Equipment, Inc.

IDS Blast

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Titan Abrasive Systems LLC

**Unified Technologies** 

Victory Air & Equipment

### **BLAST MACHINES/POTS**

Abrasives Inc.

ABS Blast

**ARS Recycling Systems** 



Stay in touch with our coatings industry community: instagram.com/paintsquare

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

**Barton International** 

barton.com



BCS

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Eagle Industrial Equipment, Inc.

Elcometer, Inc.

Forecast Sales, Inc.

pirate-brand.com



Friess Equipment, Inc. Gritco Equipment B.V.

IBIX Surface Technologies LLC

IDS Blast

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

KTA-Tator, Inc.

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Titan Abrasive Systems LLC

**Unified Technologies** 

Victory Air & Equipment

### **BLAST NOZZLES**

Abrasives Inc.

All Jetting Technologies, Inc.

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

**BCS** 

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

Elcometer, Inc.

Forecast Sales, Inc.

pirate-brand.com



Friess Equipment, Inc.

Graco Inc.

Gritco Equipment B.V.

IBIX Surface Technologies LLC

IDS Blast

In-Spec Corporation Pte Ltd.

Kennametal Inc.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

NLB Corp.

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Tysa Inc.

**Unified Technologies** 

Victory Air & Equipment

### BLAST ROOM DESIGN AND CONSTRUCTION

Abrasives Inc.

ABS Blast

Airblast AFC

SUPPLIERS / EBG SURFACE PREPARATION

Atlantic Design Inc.

BCS

Blast Cleaning Technologies

Blasting Experts Inc.

Canfield & Joseph Inc.

DeHumidification Technologies, LP

Friess Equipment, Inc.

**IDS Blast** 

In-Spec Corporation Pte Ltd.

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Titan Abrasive Systems LLC

**Unified Technologies** 

Victory Air & Equipment

#### **BLASTING CABINETS**

Abrasives Inc.

Airblast AFC

Atlantic Design Inc.

**BCS** 

Blasting Experts Inc.

Canfield & Joseph Inc.

Friess Equipment, Inc.

**IDS Blast** 

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Titan Abrasive Systems LLC

Tysa Inc.

**Unified Technologies** 

Victory Air & Equipment

### **CAULKING GUNS**

Arroworthy

Imperial Paint Applicators

### **CAULKS AND SEALANTS**

Tower Sealants / M-D Building U-C Coatings, LLC

### CHEMICAL CLEANING **MATERIALS**

Abrasives Inc. Desco Mfg. Co., Inc. HoldTight Solutions

#### **COMPRESSED AIR DRYERS**

Abrasives Inc.

**ABS Blast** 

ARS Recycling Systems

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

BCS

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph Inc.

DryAIR by TDM

Forecast Sales, Inc.

pirate-brand.com



Gritco Equipment B.V. Kleen Blast Abrasives Kleen Blast Abrasives Warehouse Manus Abrasive Systems, Inc./ Mod-U-Blast Mfg. N.T. Ruddock Co. Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

### **LET'S CONNECT**

Stay in touch with our coatings industry community: linkedin.com/showcase/paintsquare/



Van Air Systems

vanairsystems.com



Victory Air & Equipment

### **COMPRESSED AIR FILTERS**

Abrasives Inc. **ARS Recycling Systems** 

Blasting Experts Inc.

Canfield & Joseph Inc.

Gritco Equipment B.V.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

Van Air Systems

Victory Air & Equipment

### DRUMS

Desco Mfg. Co., Inc. Julbert, Inc.

N.T. Ruddock Co.

SMITH Surface-Prep Solutions

T Tex Industries I P

### **FLOOR FINISHING TOOLS**

Aargo Environmental, Inc. Canfield & Joseph, Inc. Panblast Pte Ltd. SMITH Surface-Prep Solutions Trelawny SPT Ltd.

### **FLOOR SANDERS, EDGERS**

Aargo Environmental, Inc. Desco Mfg. Co., Inc. Trelawny SPT Ltd.

EBG / SUPPLIERS SURFACE PREPARATION

### FLOOR SCRAPERS, RIDING

Aargo Environmental, Inc.

### **GENERATORS, PORTABLE**

Canfield & Joseph, Inc.

DeHumidification Technologies, LP

DryAIR by TDM

### **GRINDERS AND PLANERS, CONCRETE**

Aargo Environmental, Inc.

Abrasives Inc.

Airtec Ltd.

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

SMITH Surface-Prep Solutions

Trelawny SPT Ltd.

### HAND TOOLS (WIRE BRUSHES, SCRAPERS, CHISELS)

Aargo Environmental, Inc.

Abrasives Inc.

Airtec Ltd.

Arroworthy

**BCS** 

Blasting Experts Inc.

Canfield & Joseph Inc.

Desmond Mfg. Co.

Imperial Paint Applicators

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

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### HAZARDOUS WASTE STABILIZERS, ABRASIVE ADDITIVE

Abrasives Inc.

BCS

Blasting Experts Inc.

Browns Hill Sand

Kleen Blast Abrasives Warehouse

T Tex Industries LP

Victory Air & Equipment

### HAZARDOUS WASTE STABILIZERS, LIQUID, GEL

Abrasives Inc.

T Tex Industries LP

### **HEAT GUNS**

Eagle Industries

Imperial Paint Applicators

Titan Tool

### **HOSES AND FITTINGS**

Abrasives Inc.

All Jetting Technologies, Inc.

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

**BCS** 

Blasting Experts Inc.

Bolair Fluid Handling Systems

Bullard

Canfield & Joseph Inc.

Carlisle Fluid Technologies

Desco Mfg. Co., Inc.

Elcometer, Inc.

FS Solutions

Graco Inc.

Guzzler Manufacturing

**IDS Blast** 

Industrial Vacuum Equipment Corp.

Jetstream of Houston

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

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

NLB Corp.

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Quikspray, Inc.

quikspray.com



Rapid Prep

T Tex Industries LP

Titan Tool

Victory Air & Equipment

### LASER CLEANING

Blasting Experts Inc.

### **OIL AND WATER SEPARATORS**

**BCS** 

Blasting Experts Inc.

DryAIR by TDM

Gritco Equipment B.V.

IDS Blast

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Panblast Pte Ltd.

T Tex Industries LP

Van Air Systems

Victory Air & Equipment

### PAINT REMOVER, HEAT INDUCTION

Blasting Experts Inc.

### PAINT STRIPPERS, CHEMICAL

Abrasives Inc.

Blasting Experts Inc.

U-C Coatings, LLC

Victory Air & Equipment

### **PATCHING MATERIALS**

Accumet Materials Company Tower Sealants / M-D Building

U-C Coatings, LLC

### PIPE, CLEANING EQUIPMENT

Abrasives Inc.

Blasting Experts Inc.

Desco Mfg. Co., Inc.

Friess Equipment, Inc.

Goff Inc.

IDS Blast

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

NLB Corp.

Panblast Pte Ltd.

RBW Enterprises, Inc.

T Tex Industries LP

Unified Technologies

Victory Air & Equipment

Westech

### POLISHING MACHINES

Aargo Environmental, Inc.

Panblast Pte Ltd.

Trelawny SPT Ltd.

### POLISHING PADS AND TOOLING

Aargo Environmental, Inc.

### POWER TOOLS, CLEANING MEDIA

Trelawny SPT Ltd.

Aargo Environmental, Inc.

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

T Tex Industries LP

Trelawny SPT Ltd.

### **POWER TOOLS, DISC SANDERS**

Aargo Environmental, Inc.

Abrasives Inc.

Airtec Ltd.

SURFACE PREPARATION SUPPLIERS / EBG

Blasting Experts Inc.

Canfield & Joseph Inc.

Desco Mfg. Co., Inc.

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

Rapid Prep

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### **POWER TOOLS, GRINDERS**

Aargo Environmental, Inc.

Abrasives Inc.

Airtec Ltd.

BCS

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

**IDS Blast** 

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

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### POWER TOOLS, NEEDLE GUNS

Aargo Environmental, Inc.

Airtec Ltd.

BCS

Canfield & Joseph Inc.

Desco Mfg. Co., Inc.

**IDS Blast** 

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

Rapid Prep

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### POWER TOOLS, ROTARY HAMMERS

Aargo Environmental, Inc.

Airtec Ltd.

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

**IDS Blast** 

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

Rapid Prep

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### POWER TOOLS, ROTARY PEENING EQUIPMENT

Aargo Environmental, Inc.

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

**IDS Blast** 

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

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

### **POWER TOOLS, SCARIFIERS**

Aargo Environmental, Inc.

Airtec Ltd.

**BCS** 

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

Desmond Mfg. Co.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

### **POWER TOOLS, WIRE BRUSHES**

Aargo Environmental, Inc.

Abrasives Inc.

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

### **PRESSURE WASHERS**

Blasting Experts Inc.

Desco Mfg. Co., Inc.

Imperial Paint Applicators

Jenny Products, Inc.

Rapid Prep

### **PUMPS, WATER BLASTING**

Aargo Environmental, Inc.

Abrasives Inc.

All Jetting Technologies, Inc.

Blasting Experts Inc.

Canfield & Joseph Inc.

FS Solutions

NLB Corp.

T Tex Industries LP

Victory Air & Equipment

### ROBOTIC BLASTING SYSTEMS, AIR ABRASIVE

ABS Blast

Blasting Experts Inc.

Friess Equipment, Inc.

**IDS Blast** 

Kleen Blast Abrasives

NLB Corp.

Pellets, LLC

RBW Enterprises, Inc.

Remote Orbital Installations, LLC

T Tex Industries LP

### **ROBOTIC BLASTING SYSTEMS, WATER**

Blasting Experts Inc.

T Tex Industries LP

### **RUST INHIBITORS**

Abrasives Inc.

**BCS** 

Blasting Experts Inc.

Bolair Fluid Handling Systems

Browns Hill Sand

Canfield & Joseph Inc.

HoldTight Solutions

Kleen Blast Abrasives
Kleen Blast Abrasives Warehouse

N.T. Ruddock Co.

Pellets, LLC

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### SALT REMOVAL CHEMICALS

Abrasives Inc.

BCS.

Blasting Experts Inc.

Canfield & Joseph Inc.

HoldTight Solutions

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### SCARIFIERS, CONVENTIONAL

Airtec Ltd.

Blasting Experts Inc.

Desco Mfg. Co., Inc.

EBG / SUPPLIERS SURFACE PREPARATION

SCARIFIERS, CONVENTIONAL CONT.

Desmond Mfg. Co.

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

### SCREENS, ABRASIVE SEPARATING

Abrasives Inc.

**ABS Blast** 

Atlantic Design Inc.

**BCS** 

Blasting Experts Inc.

Canfield & Joseph, Inc.

Ervin Industries, Inc.

Kleen Blast Abrasives

N.T. Ruddock Co.

Rapid Prep

T Tex Industries LP

### SHOT BLAST MACHINES, PORTABLE, HORIZONTAL

Abrasives Inc.

Airtec Ltd

**ARS Recycling Systems** 

Blast Cleaning Technologies

Blasting Experts Inc.

Canfield & Joseph, Inc.

Goff Inc.

In-Spec Corporation Pte Ltd.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

RBW Enterprises, Inc.

T Tex Industries LP

**Unified Technologies** 

Victory Air & Equipment

### SHOT BLAST MACHINES, PORTABLE, VERTICAL

Abrasives Inc.

ARS Recycling Systems

Blast Cleaning Technologies

Blasting Experts Inc.

Canfield & Joseph, Inc.

In-Spec Corporation Pte Ltd.

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

RBW Enterprises, Inc.

T Tex Industries LP

Unified Technologies

Victory Air & Equipment

### **STEAM CLEANERS**

Airtec Ltd.

Jenny Products, Inc.

Victory Air & Equipment

### **VACUUM BLAST SYSTEMS**

Aargo Environmental, Inc.

Abrasives Inc.

Airblast AFC

**ARS Recycling Systems** 

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

BCS

Blasting Experts Inc.

Canfield & Joseph Inc.

Friess Equipment, Inc.

Gritco Equipment B.V.

**IDS Blast** 

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

RBW Enterprises, Inc.

T Tex Industries LP

Victory Air & Equipment

### **VACUUM EQUIPMENT**

Aargo Environmental, Inc.

Abrasives Inc.

ABS Blast

Airblast AFC

Airtec Ltd.

**ARS Recycling Systems** 

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

BCS

Blasting Experts Inc.

Canfield & Joseph, Inc.

Desco Mfg. Co., Inc.

FS Solutions

Guzzler Manufacturing

**IDS Blast** 

Industrial Vacuum Equipment Corp.

industrialvacuum.com



Julbert, Inc.

Kleen Blast Abrasives Warehouse

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

NLB Corp.

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

SMITH Surface-Prep Solutions

T Tex Industries LP

Trelawny SPT Ltd.

Victory Air & Equipment

Westech

### **VALVES**

Abrasives Inc.

Atlantic Design Inc.

Axxiom Manufacturing, Inc.

BCS

Blasting Experts Inc.

Canfield & Joseph Inc.

Elcometer, Inc.

# PAINT BIDTRACKER ::::-

Verified Bids & Results for Industrial Structures

Planning & Design

Decision-Maker Contacts

SURFACE PREPARATION SUPPLIERS / EBG

### Forecast Sales, Inc.

pirate-brand.com



**IDS Blast** 

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Rapid Prep

T Tex Industries LP

Titan Abrasive Systems LLC

Van Air Systems

Victory Air & Equipment

### WATER BLASTING LANCES

All Jetting Technologies, Inc. Blasting Experts Inc.

FS Solutions

Jetstream of Houston

NLB Corp.

Victory Air & Equipment

### WATER BLASTING UNITS, HIGH PRESSURE

Abrasives Inc.

All Jetting Technologies, Inc.

Blasting Experts Inc.

FS Solutions

Jetstream of Houston

NLB Corp.

N.T. Ruddock Co.

Rapid Prep

Victory Air & Equipment

### WATER BLASTING UNITS, ULTRA-HIGH PRESSURE

Abrasives Inc.

All Jetting Technologies, Inc.

Blasting Experts Inc.

NLB Corp.

T Tex Industries LP

### WATER WASHING UNITS, LOW PRESSURE

Abrasives Inc.

Blasting Experts Inc.

Desco Mfg. Co., Inc.

Goff Inc.

NLB Corp.

T Tex Industries LP

Victory Air & Equipment

### WET BLASTING UNITS (WATER AND ABRASIVE)

Abrasives Inc.

Axxiom Manufacturing, Inc.

Blasting Experts Inc.

Bolair Fluid Handling Systems

Canfield & Joseph, Inc.

Friess Equipment, Inc.

Graco Inc.

Gritco Equipment B.V.

In-Spec Corporation Pte Ltd.

Kleen Blast Abrasives

Kleen Blast Abrasives Warehouse

KTA-Tator, Inc.

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

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

Rapid Prep

T Tex Industries LP

Victory Air & Equipment

### WHEEL BLASTING UNITS, STATIONARY

Abrasives Inc.

Blast Cleaning Technologies

Blasting Experts Inc.

Canfield & Joseph, Inc.

Goff Inc.

**IDS Blast** 

In-Spec Corporation Pte Ltd.

Manus Abrasive Systems, Inc./

Mod-U-Blast Mfg.

N.T. Ruddock Co.

Panblast Pte Ltd.

Pellets, LLC

RBW Enterprises, Inc.

T Tex Industries LP

**Unified Technologies** 

Victory Air & Equipment



MAY-JUNE 2024 / VOL. 41, NO. 4

### NEWS FROM THE TRACKER

BY KONSTANTINE FEKOS, PAINT BIDTRACKER

NJ Lift Bridge, Pump Station Projects Biddingt Awards: IN Bridge, ON Water Tower Contracts

### **PROJECT PREVIEWS**

The New Jersey Transit Corporation (NJ Transit) is soliciting bids for the next phase of the Raritan River Bridge replacement project in Middlesex County, which includes cleaning and coating steel on the new bridge structure.

The current railroad swing bridge, also known as River-Draw, was constructed in 1908 and carries NJ Transit passenger trains, as well as Conrail-Norfolk Southern freight rail routes, over the Raritan River between Perth Amboy and South Amboy. After suffering damage from Superstorm Sandy in 2012, a replacement project was scheduled, and work has reportedly been ongoing since the project





received grant funding and broke ground in 2020.

Under the scope of work under the current contract, the existing bridge and pier protection structures will be demolished, and a new movable steel lift bridge will be installed in its place, of which structural steel items

will be cleaned and coated. According to the specification, structural steel surfaces will receive a three-coat application consisting of a zinc-rich primer, an epoxy intermediate and a polyurethane topcoat. The contract also includes metallizing and coating of various steel structures. The owner-specified manufacturers for this project include Carboline, PPG and Sherwin-Williams, or an approved equal.

Prior to coating, surfaces will require preparation in accordance with standards for Solvent Cleaning (SSPC-SP 1), Hand Tool Cleaning (SSPC-SP 2), Power Tool Cleaning (SSPC-SP 3), Commercial Blast Cleaning (SSPC-SP 6/NACE No. 3), Near-White Metal Blast Cleaning (SSPC-SP 10/NACE No. 2), Bare Metal Power Tool Cleaning (SSPC-SP 11), and Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals (SSPC-SP 16). Contractor certifications for SSPC-QP 1 and -QP 3 are required.

The submittal date for this project is July 17.

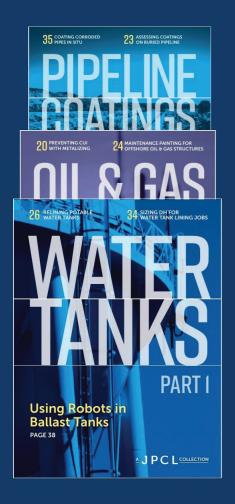
The Atlantic County Utilities Authority in New Jersey is soliciting bids for upgrades, including coating work, at the Pleasantville Pump Station.

According to the project specifications, coating applications will include a two-coat system of Portland cement and high-solids epoxy on existing immersed concrete substrates. New concrete substrates will receive a single-coat application of epoxy. Concrete flooring will be cleaned and recoated with a two-coat epoxy system. Non-immersed concrete walls and ceiling will receive a two-coat system of high-solids epoxy. The owner-specified manufacturers for this project include PPG /Raven Lining Systems and Sauereisen, or an approved equal.

In preparation for coating, surfaces will require preparation in accordance with standards for Hand Tool Cleaning (SSPC-SP 2), Power Tool Cleaning (SSPC-SP 3), Near White Metal Blast Cleaning (SSPC-SP 10/NACE No. 2), and Surface Preparation of Concrete (SSPC-SP 13/NACE No. 6).

The submittal date for this project is July 11.





From the JPCL Archives:

# **ARTICLE** COLLECTIONS

Harness the wisdom and experience of respected industry leaders and educators.

\$35 EACH • 4-TITLE BUNDLE, \$100 7-TITLE BUNDLE, \$150 • PLUS S&H

### ORDER NOW



store.technologypub.com

JPCL



### **PROJECT AWARDS**

The **Indiana Department of Transportation** has awarded a \$178,504 contract to Eagle Painting & Maintenance Company, Inc. (Lansing, Illinois) for cleaning, coating and repairs to an existing bridge structure carrying State Route 39 over Smart Ditch near Indianapolis.

The project is scheduled to include the standard INDOT three-coat system of zinc-rich primer, epoxy intermediate, and urethane finish on structural steel. This system is subject to change depending on individual project requirements. Containment according to SSPC-Guide 6 is required: Class 3 for zinc-primed existing systems and Class 2 for lead-primed existing systems. SSPC-QP 1, -QP 2 and -QP 3 certifications are required. The approved manufacturers for this project include Carboline, International Paint, PPG and Sherwin-Williams.

Eagle Painting & Maintenance was the apparent lowest of four bidding companies. Additional bids submitted included:

- Olympus Painting LLC (Valparaiso, IN) in the amount of \$204,396;
- Three Star Painting, Inc. (Merrillville, IN) in the amount of \$335,911; and
- Civil Coatings (Valparaiso, IN) in the amount of \$378,898.







Landmark Municipal Services (Burlington, Ontario) secured a \$494,800 contract from the City of Barrie, Ontario, Canada, for exterior cleaning and overcoating, as well as cathodic protection upgrades and repairs, on the 1.5-million-gallon Ferndale Composite Elevated Water Tank.

The scope of the coating work on the project includes pressure washing the exterior of the tank and power-tool cleaning any corroded areas to a Bare Metal (SSPC-SP 11) finish before overcoating with a penetrating sealing primer, a high-solids epoxy, two coats of urethane and a clear fluoropolymer finish. The contract also includes replacing the city's logo at the top of the tower. The owner-specified coating manufacturers for this project include PPG and Carboline.

Landmark Municipal Services was the sole apparent bidder on this contract. The company had previously performed inspection and condition assessment services on the tank in 2020, determining that the exterior work was needed.