

# POWDER COATED **TOUGH**

THE OFFICIAL PUBLICATION OF THE POWDER COATING INSTITUTE®

## 2017 BUYERS GUIDE

### INSIDE:

- Market Trends
- Auxiliary Equipment
- Consulting Services
- Custom Coaters
- Powder Application Equipment/  
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November/December 2016



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Pearlescents  
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Smooths  
Static Dissipating  
Superdurables  
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UV-Curable  
Veins  
Wrinkles  
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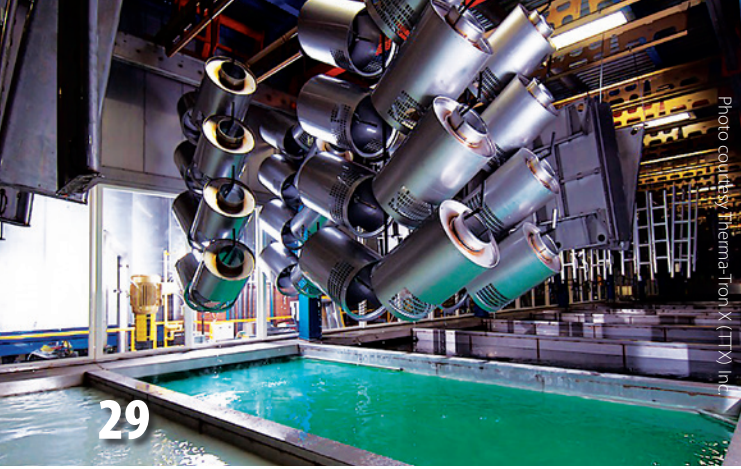


Photo courtesy: Thermo-Tron X (TTX) Inc.

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## Don't see your company listed in this Buyers Guide?

To become a PCI member and be included in our next Buyers Guide, contact Trena Benson at (859) 525-9988 or email: [trena@powdercoating.org](mailto:trena@powdercoating.org)



# Reach for this Restructured Resource

Here at The Powder Coating Institute (PCI), our mission is to promote the use of powder coating technology. To fulfill that mission, we have various opportunities to promote our member organizations. Our annual Buyers Guide is one of those opportunities. At the end of each year, *Powder Coated Tough* publishes its guide for the upcoming year. This November/December issue represents a collection of our members' product and service offerings to make it easy for our readers to find exactly what they need when it comes to powder coating.

Now, you might notice that the guide looks a little different from what we have published in the past. As you flip through the pages, you can see that we have reorganized and restructured our product and service categories. Rather than list categories and subcategories in the order you might see them being used on the finishing line, we created general alphabetized headings and then listed categories alphabetically within each of those. This should make it easier to find exactly what you are looking for.

These general headings are:

- Auxiliary Equipment/Supplies
- Consulting Services
- Custom Coaters
- Powder Application Equipment/Booths/System Design

- Powder Coatings/PC Characteristics
- Pretreatment Materials
- Quality/Testing Equipment
- Raw Materials/Powder Manufacturing Equipment

During the past few months, members were given the opportunity to update their profile information in our new database. Utilizing this new database to gather data has resulted in our staff's ability to do a better job than ever in coordinating and simplifying various efforts. In the past, our members could select only a handful of general categories that they were involved with. Now, within the eight general aforementioned categories, members are able to select specific categories for their products and services. Suppliers who have advertised in this edition are listed in boldface type. Distributors are listed on page 31.

So, in your hands is the *Powder Coated Tough 2017 Buyers Guide*. It is our hope that you find the reformatted design to be a simple, easy-to-reference resource that you keep within your reach year-round.

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# PEERING INTO THE FUTURE: MARKET TRENDS FOR 2017-2023



By Kevin Biller

Once a year, *Powder Coated Tough* peers into our crystal ball to predict where the powder coating market is headed for the next few years. We try to capture the North American market that we serve but also the global trends that affect the industry. The following is intended to provide insight into where we feel the market is going and how fast it is expected to grow.

## World Market

According to IRL, a global industry consultancy, the entire 2015 global market for industrial coatings was 7.6 million metric tons<sup>1</sup>. The 2015 global market size for powder coatings is estimated to be \$8.66 billion by Grand View Research<sup>2</sup>. ChemQuest approximates the 2015 powder coating portion of the global industrial coatings market to be 24 percent, which would

total 1.82 million metric tons<sup>3</sup>. This would pin the average price per kilogram at \$4.76 (\$2.15 per pound) worldwide. Zion Research sees the global volume a bit higher at 2.045 million metric tons and the market value significantly lower at \$7.50 billion<sup>4</sup>. This equates to a paltry \$3.68 per kilogram (\$1.66 per pound).

World powder coating consumption is dominated by Asia with estimates

ranging from 40 percent by Zion Research<sup>4</sup> to 52 percent by MarketsandMarkets<sup>5</sup>. The Powder Coating Institute estimates China representing 50 percent of the overall market<sup>6</sup>.

Depending on who you ask, the global powder market is estimated to grow at a CAGR (compound annual growth rate) of 6.3 percent to 7.2 percent over the next five to six years. As one might guess, the most aggressive growth is predicted for the Asia Pacific region, as Grand View Research forecasts a CAGR of 8.5 percent for this region by 2020<sup>2</sup>. Nearly all market research reports see growth in mature markets such as Western Europe and North America to be sluggish.



Figure 1. Global Powder Coating Market – 2015

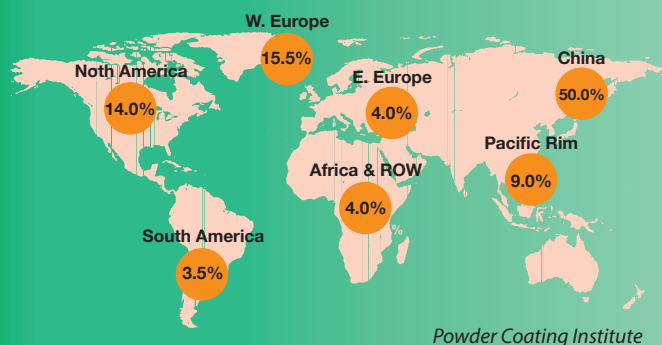


Table 1. Powder Coating Market Growth Estimates

Research Firm	Recent Figures			Growth		Future Figure	
	Value (billion)	Volume (million tons)	Year	CAGR (%)	Period	Value (billion)	Year
Zion Research	\$7.50	2.045	2014	6.8	2014-2020		
Global Market Research				6.8	2015-2023	\$15.58	2023
Grand View Research	\$8.66	NA	2015	7.2	2016-2020		
Allied Market Research				6.3	2015-2022	\$12.33	2022
Markets and Markets				6.54	2014-2019	\$12.06	2019

### Market Segments

The Powder Coating Institute reports 10 different market segments served by the powder coating industry based on their member reports<sup>6</sup>. These numbers are knowingly incomplete as there is little or no representation of powder coatings used in functional applications such as oil and gas transmission pipelines and concrete reinforcing bars. In addition, there are 17 member companies identified as powder coating producers in The Powder Coating Institute. It is estimated that there are approximately 42 powder coating manufacturers in North America.

Table 2. North American Powder Coating Market Segments

Market Segment	% Market Share
General Metals	30.0
Automotive	17.0
Electrical	9.0
Appliance	7.0
ACE (Agricultural, Construction & Earth Moving)	6.0
Architectural	6.0
Furniture	6.0
Lawn & Garden	4.0
HVAC	1.0
Jobcoaters	12.0
Miscellaneous	2.0

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Market segments can be rather broad, such as General Metals. This is a catchall descriptor for a variety of metal fabricated goods such as metal shelving, lighting fixtures, racking, non-automotive transportation, sporting goods, medical devices and other products. There are also segment overlaps such as Furniture and Lawn & Garden, Electrical and Appliance, and HVAC and Appliance. And finally, the sector known as Job Coaters can range from a small hobby operation up to a highly sophisticated facility dedicated to Automotive or Appliance components finishing. Some job coaters service the market segments embodied in the PCI's report.

Grand View Research pegs the consumer goods market as the current leading sector at 22.1 percent and predicts that developing countries like Brazil, Russia and India are expected to become the primary consumers of powder coatings<sup>7</sup>. Zion Research opines that the automotive application segment is the most dynamic and will experience the faster growth<sup>4</sup>. Allied Market Research on the other hand sees appliance powder coatings as the dominant segment (>20 percent) but expects the furniture market to experience the highest CAGR through 2022<sup>8</sup>.

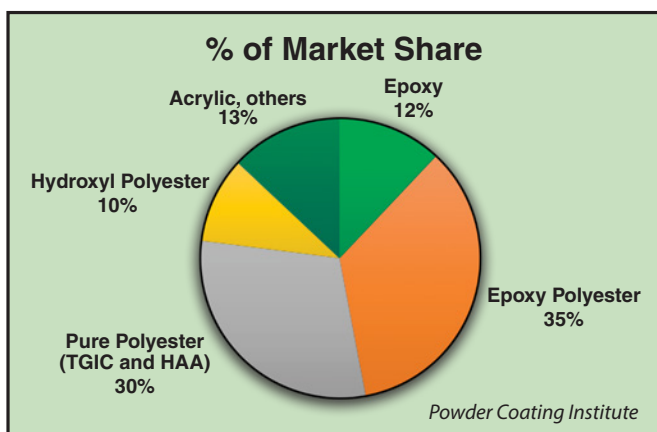
### Chemistries

Estimating powder coating chemistry market share is an inexact science. Resin producers can provide data regarding the polymers they sell however assigning

polymer types to powder coating chemistry types is difficult because formulators tend to blend different resins to achieve specified coating performance. For instance, carboxyl polyester resins can be used in hybrid powders, polyester TGIC and TGIC free (a.k.a., HAA) polyester systems. In addition, epoxy resins can be used in a variety of epoxy based powders, hybrids and some acrylic formulas as well. Hence, the best that market researchers can hope for is an approximation of market intelligence regarding powder chemistries.

Regardless the Powder Coating Institute estimates the market thus<sup>6</sup>:

**Figure 2. Powder Chemistries Market Share—Global**



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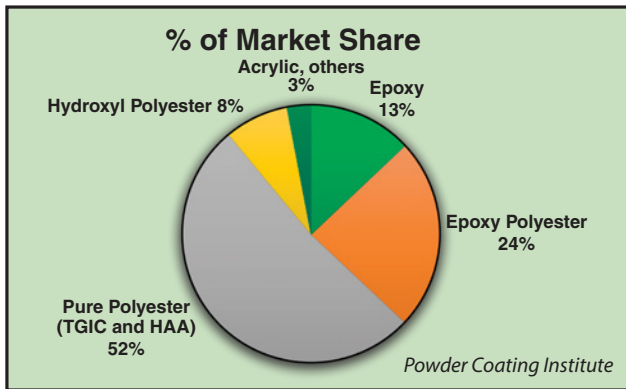
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**Figure 3. Powder Chemistries Market Share—N.A.**



Probably the most interesting difference between the global and North American powder chemistries market shares is the Polyester vs. Epoxy-Polyester (hybrid) ratio. In the highly developed North American Market, polyesters dominate hybrids by over two to one. Globally, hybrids edge out polyesters 35 to 30 percent market share. This represents the disparity in product mix between mature markets and developing ones. Developing economies have a higher percentage of entry level fabricated goods that can be coated with indoor grade epoxy-polyesters whereas the relatively higher end product lines in developed countries require the added outdoor durability (and higher cost) of polyester powder coatings.

Surprisingly, acrylics, et al., command a higher market share globally than in North America. Acrylic powder coatings have been used as OEM automotive topcoats in Germany and also for alloy wheels for the luxury car market. This may account for the disparity.

### Market Players

The major players in the powder market are fairly apparent to the industry. The largest are multi-national manufacturers with representation in most global regions. These include AkzoNobel, Axalta, PPG, Protech-Oxyplast, Sherwin Williams, Valspar, Jotun and Tiger Drylac<sup>9</sup>.

**Table 3. Major Global Powder Coating Producers**

Company	Regional Presence
AkzoNobel	North America, South America, Western Europe, Eastern Europe, China, Pacific Rim, South Africa
Axalta	North America, China, Pacific Rim
PPG	North America, Western Europe
Sherwin Williams	North America, Eastern Europe
Valspar	North America, South America, Western Europe
Jotun	Scandinavia, Eastern Europe, Middle East, Pacific Rim, South America
ProTech-Oxyplast	North America, Western Europe, South America, Pacific Rim
Tiger Drylac	Austria, North America, China

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The major producers represent about 40 percent of the market and the rest is serviced by a collection of regional players, many who dominate their home country and perhaps a few other nearby geographic markets. Italy boasts the largest European market shares where AkzoNobel and Valspar lead in sales. In addition, there are several strong domestic players, including EuroPulveri, Pulverit and Ecopolifix. Germany is also a high-volume producer where AkzoNobel, CWS

**Table 4. Powder Coating Producers, Regional Players: Europe**

Company	Regional Presence
EuroPulveri	Italy
Pulverit	Italy
Ecopolifix	Italy
ST Powder	Italy
Pulver	Turkey
IBA+ATICO	Turkey
NeoKem	Greece
Teknos	Finland
CIN	Portugal
Inver	UK
CWS	Germany
Emil Frei	Germany
Worwag	Germany
Brillux	Germany
IGP	Switzerland, Poland

and Emil Frei vie for the top producer spot. Turkey has a significantly large output of powder coatings with Pulver and IBA+ATICO commanding over 50 percent of their market.

The North American market used to be fragmented amongst a number of major paint companies and non-paint producing powder suppliers (e.g., Ferro, Armstrong, Polymer, HB Fuller). The last 15 to 20 years have brought a flurry of major consolidations gobbling up the nontraditional players into the major paint corporations. PPG has acquired IVC, Comex and Spraylat, AkzoNobel purchased Rohm & Haas (Dow) and Ferro. Sherwin Williams bought Beckers and now Valspar. However, the king of acquisitions has been Protech, who has purchased more than 20 powder suppliers over the past 25 years or so.

**Table 5. Powder Coating Producers, Regional Players: Americas**

Company	Regional Presence
3M	USA
Vitracoat Pinturas en Polvo	Mexico, USA
Cardinal Industrial Finishes	USA
Diamond Vogel	USA
IFS	USA
TCl (div. of RPM)	USA
Hentzen Coatings	USA
WEG	Brazil

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A few regional players stand out in Asia. Japan being rather insular is dominated by Dai Nippon and Nippon Paints. India's strongest player is Kansai-Nerolac, but solid market presence is shared by Asian Paints, Berger and AkzoNobel. China's market is huge and still growing strong led by AkzoNobel and Axalta. In addition, there are a number of large China based companies including Anhui Meijia, Guangzhou Kinte, Fujian Wanan and Jiangsu Huaguang. Nippon Paint also has a significant presence there. In South Korea, AkzoNobel and KCC command over 50 percent of the powder coating sales.

**Table 6. Powder Coating Producers, Regional Players: Asia**

Company	Regional Presence
Dai Nippon	Japan
Nippon Paint	Japan, China, Thailand
Kansai-Nerolac	Japan, India
KCC	South Korea
Samwha	South Korea
Chokwang Paints	South Korea
Kunsul Chemicals	South Korea
Vpowdertech	Thailand
Anhui Meijia New Materials	China
Guangzhou Kinte	China
Fujian Wanan	China
Jiangsu Huaguang	China
Wenzhou Ly Pont	China
Zhejiang Huacai	China
Zhejing Changming	China
Tianjing Xiangsheng	China
Qingdao Meier	China
Zhejiang Bowlder	China
Asian Paints	India
Berger	India
Rajit Paints	India
Rapid Coat	India
Marpol	India

**Table 7. Powder Coating Producers, Regional Players: Middle East & ROW**

Company	Regional Presence
National Paint	Middle East
Tambour	Israel
Dulux	Australia, New Zealand



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## Future Trends

The market for powder coatings as an industrial metal coating is nearly saturated in the mature economic regions of North America, Western Europe and Japan. Developing markets will still see rapid growth due to expanding economies but prices will remain low because of fierce competition and over capacity. India is poised for significant growth because they are finally addressing their lack of infrastructure.

Market segment wise powders will continue to expand in architectural and ACE but its share of the automotive market will continue to erode due to novel liquid paint technologies such as the “compact” process of layering wet coats without an intermediate bake cycle.

Technological breakthroughs that allow powder to be used over plastic and composite substrates could open significant opportunities but the barrier to entry is still high for first

adoption. Powder on engineered wood products remains in its infancy stage of market penetration and will grow at a reasonably high rate. The development of powder for hardwood would be disruptive and could create large new market opportunities.

Regulatory pressure to minimize organic volatiles will have only a minor effect on growth as emissions abatement technology competes well with powder and low VOC (volatile organic compound) liquid paint technologies continue to emerge.

Kevin Biller is technical editor of Powder Coated Tough magazine and president of The Powder Coating Research Group. He can be reached via email at kevinbiller@yahoo.com.



## References:

- <sup>1</sup> IRL – *Coatings World*, June 2016, page 27
- <sup>2</sup> Grand View Research, *Focus on Powder Coatings*, October 2016 issue, page 7
- <sup>3</sup> ChemQuest – Equity Research June 2, 2015, *Paint Coatings and Adhesives ChemQuest Paints a Favorable Picture*
- <sup>4</sup> Zion Research, *Focus on Powder Coatings*, June 2016 issue, page 5.
- <sup>5</sup> MarketsandMarkets – [www.marketsandmarkets.com/Market-Reports/powder-coatings-market-151375565.html](http://www.marketsandmarkets.com/Market-Reports/powder-coatings-market-151375565.html)
- <sup>6</sup> Powder Coating Institute Executive Director's Report 2016
- <sup>7</sup> Grand View Research, *Powder Coatings Market Size to Reach \$16.55 Billion*, August 2016 – [www.grandviewresearch.com/press-release/global-powder-coatings-market](http://www.grandviewresearch.com/press-release/global-powder-coatings-market).
- <sup>8</sup> Allied Market Research, *Powder Coatings Market - Global Opportunity Analysis and Industry Forecast, 2014 – 2022* – [www.alliedmarketresearch.com/press-release/powder-coatings-market.html](http://www.alliedmarketresearch.com/press-release/powder-coatings-market.html).
- <sup>9</sup> Powder Coating Research Group, Inc., internal documents.

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## CONVEYOR EQUIPMENT

### Belt

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
**Rapid Engineering, LLC**  
 Rapid Industries, Inc.  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Chain on Edge

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
**Mighty Hook, Inc.**  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Enclosed Track

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
**Mighty Hook, Inc.**  
 NikoTrack, LLC  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Rapid Industries, Inc.  
 Reliant Finishing Systems  
 Richards-Wilcox Conveyor  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Floor

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Rapid Industries, Inc.



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Richards-Wilcox Conveyor  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### I-Beam

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
**Mighty Hook, Inc.**  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Rapid Industries, Inc.  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Parts

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
 Richards-Wilcox Conveyor  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Power and Free

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
**IntelliFinishing**  
 Midwest Finishing Systems, Inc.  
**Mighty Hook, Inc.**  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Rapid Industries, Inc.  
 Richards-Wilcox Conveyor  
**Therma-Tron-X, Inc.**

## OVENS

### Convection

**Col-Met Engineered Finishing Solutions**  
 Decoral System USA Corp.  
**Engineered Finishing Systems**  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Convection, Gas

**Col-Met Engineered Finishing Solutions**  
 Decoral System USA Corp.

### Engineered Finishing Systems

Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Cure/Force Dry/Dry Off/Boost

**Col-Met Engineered Finishing Solutions**  
 Decoral System USA Corp.  
**Engineered Finishing Systems**  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Heraeus Noblelight America, LLC  
 Midwest Finishing Systems, Inc.  
 Patriot Powder Coatings  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Electric

**Col-Met Engineered Finishing Solutions**  
 Decoral System USA Corp.  
**Engineered Finishing Systems**  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### Infrared (IR)

**Col-Met Engineered Finishing Solutions**  
 Decoral System USA Corp.  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Heraeus Noblelight America, LLC  
 Midwest Finishing Systems, Inc.  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

### IR, Electric IR

Decoral System USA Corp.  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Heraeus Noblelight America, LLC

*Continued on page 14*

IR, Electric IR, continued from page 13

**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC



## IR, Gas IR

Decoral System USA Corp.  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Heraeus Noblelight America, LLC  
 Midwest Finishing Systems, Inc.  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

## IR, Near IR

Decoral System USA Corp.  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
 Heraeus Noblelight America, LLC  
**Pneu-Mech Systems Mfg., Inc.**  
**Rapid Engineering, LLC**  
**Therma-Tron-X, Inc.**

## Parts & Maintenance

Decoral System USA Corp.  
**Engineered Finishing Systems**  
 Fostoria Process Equipment, Div. of TPI Corp.  
**George Koch Sons, LLC**  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

## Ultraviolet (UV)

Decoral System USA Corp.  
**George Koch Sons, LLC**  
**Nordson Corporation**  
 Trimac Industrial Systems, LLC

## OTHER AUXILIARY EQUIPMENT/ SUPPLIES

**Absorbents for Chemical Spills**  
**Therma-Tron-X, Inc.**

## Air Dryers

**Gema USA**  
**Nordson Corporation**  
**Parker Ionics**  
 Trimac Industrial Systems, LLC

## Air Filters

**Nordson Corporation**  
 Patriot Powder Coatings

## Air Knives

**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

## Air Makeup Systems

**Col-Met Engineered Finishing Solutions**  
 Patriot Powder Coatings  
**Pneu-Mech Systems Mfg., Inc.**  
**Therma-Tron-X, Inc.**  
 Trimac Industrial Systems, LLC

## Blow-off Equipment

BEX Incorporated

Patriot Powder Coatings  
**Pneu-Mech Systems Mfg., Inc.**  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**

## Burners

Patriot Powder Coatings  
 Reliant Finishing Systems  
**Therma-Tron-X, Inc.**

## Cleaning, Degreasing and Lubrication

Kolene Corporation  
 Patriot Powder Coatings  
**Torch Surface Technologies**

## Cooling

**Pneu-Mech Systems Mfg., Inc.**

## Decoration/Decals

EPSI (Engineered Products & Services, Inc.)

## Dehumidifiers

Patriot Powder Coatings

## Environmental Rooms

**Engineered Finishing Systems**  
**George Koch Sons, LLC**  
 Midwest Finishing Systems, Inc.  
 Patriot Powder Coatings  
**Pneu-Mech Systems Mfg., Inc.**  
**Therma-Tron-X, Inc.**

## Etchants

**Torch Surface Technologies**

## Fans/Blowers

Fostoria Process Equipment, Div. of TPI Corp.  
**Gema USA**  
**Therma-Tron-X, Inc.**

## Filters

EPSI (Engineered Products & Services, Inc.)  
**Gema USA**  
**Nordson Corporation**  
 Patriot Powder Coatings

## Fire/Explosion Detection Systems

**Gema USA**  
**Nordson Corporation**

## Hangers/Hooks/Racks

Caplugs/Shercon  
 EPSI (Engineered Products & Services, Inc.)  
 Magic Rack / Production Plus  
**Mighty Hook, Inc.**

## Heat Exchangers

Reliant Finishing Systems

## HVAC

**Mighty Hook, Inc.**

## Lighting

**Col-Met Engineered Finishing Solutions**  
 Fostoria Process Equipment, Div. of TPI Corp.

## Masking Supplies, Caps

Caplugs/Shercon  
 Cardinal Paint and Powder  
**Custom Fabricating & Supplies**  
**Echo Engineering & Production Supplies, Inc.**  
 EPSI (Engineered Products & Services, Inc.)  
**Mighty Hook, Inc.**  
 MOCAP

## Masking Supplies, Custom

Caplugs/Shercon  
 Cardinal Paint and Powder  
**Custom Fabricating & Supplies**  
**Echo Engineering & Production Supplies Inc.**  
 EPSI (Engineered Products & Services, Inc.)  
 Magic Rack / Production Plus  
**Mighty Hook, Inc.**  
 MOCAP



## Masking Supplies, Plugs

Caplugs/Shercon  
 Cardinal Paint and Powder  
**Custom Fabricating & Supplies**  
**Echo Engineering & Production Supplies, Inc.**  
 EPSI (Engineered Products & Services, Inc.)  
**Mighty Hook, Inc.**  
 MOCAP

## Masking Supplies, Tapes

Caplugs/Shercon  
 Cardinal Paint and Powder  
**Custom Fabricating & Supplies**  
**Echo Engineering & Production Supplies, Inc.**  
 EPSI (Engineered Products & Services, Inc.)  
**Mighty Hook, Inc.**  
 MOCAP

## Masking Supplies, Tubing and Cord

Cardinal Paint and Powder  
**Custom Fabricating & Supplies**  
**Echo Engineering & Production Supplies, Inc.**  
 EPSI (Engineered Products & Services, Inc.)  
**Mighty Hook, Inc.**  
 MOCAP

## Mixers/Blenders

BEX Incorporated  
**Therma-Tron-X, Inc.**

## Personnel Lifts

**Gema USA**

## Process Management

**Sames-Exel North America, Inc.**

## Rust Removers/Inhibitors

Patriot Powder Coatings  
**Torch Surface Technologies**

## Software Systems

**Sames-Exel North America, Inc.**



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### Steam Cleaning

Patriot Powder Coatings  
Reliant Finishing Systems

### Stripping Equipment, Aqueous or Dry Blasting Mighty Hook, Inc.

### Stripping Equipment, Burn-Off Ovens

**Mighty Hook, Inc.**  
Pollution Control Products



### Stripping Equipment, Fluidized Sand

### Dinamec Systems, LLC

Kolene Corporation  
**Mighty Hook, Inc.**

### Stripping Equipment, Salt Baths

Kolene Corporation  
**Mighty Hook, Inc.**

### Stripping Equipment, Solvent

Kolene Corporation  
**Mighty Hook, Inc.**

### Tanks

### Engineered Finishing Systems

### George Koch Sons, LLC

Kolene Corporation  
**Therma-Tron-X, Inc.**

### Temperature Control Equipment

Pollution Control Products  
**Therma-Tron-X, Inc.**

### Temperature Profiling Equipment

BYK-Gardner USA  
Datapaq - Fluke Process Instruments

### Touch Up Paint, Aerosol

EPSI (Engineered Products & Services, Inc.)  
Sherwin-Williams Company

### Touch Up Paint, Liquid Spray

EPSI (Engineered Products & Services, Inc.)  
Sherwin-Williams Company

### Waste Treatment

### George Koch Sons, LLC

Pretreatment Equipment Manufacturing, Inc.  
(P.E.M., Inc.)

### Therma-Tron-X, Inc.

## Dinamec Systems

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Rubbers



## PRETREATMENT, CHEMICAL

### Headers/Risers

BEX Incorporated  
**George Koch Sons, LLC**  
**Therma-Tron-X, Inc.**  
Trimac Industrial Systems, LLC

### Immersion Pretreatment

Atotech  
Coral Chemical  
**Engineered Finishing Systems**

EnviroServe Chemicals Inc.  
**George Koch Sons, LLC**  
Henkel Corporation  
Patriot Powder Coatings  
Pretreatment Equipment Manufacturing, Inc.  
(P.E.M., Inc.)

### Therma-Tron-X, Inc.

### Torch Surface Technologies

Trimac Industrial Systems, LLC

### Parts (Nozzles)

BEX Incorporated  
Coral Chemical  
**George Koch Sons, LLC**  
**Sames-Exel North America, Inc.**  
**Therma-Tron-X, Inc.**  
Trimac Industrial Systems, LLC

### Spray Washers

Atotech  
**Col-Met Engineered Finishing Solutions**  
**Engineered Finishing Systems**  
Fostoria Process Equipment, Div. of TPI Corp.

### George Koch Sons, LLC

Henkel Corporation  
Patriot Powder Coatings  
**Pneu-Mech Systems Mfg. Inc.**  
Pretreatment Equipment Manufacturing, Inc.  
(P.E.M., Inc.)

### Rapid Engineering LLC

Reliant Finishing Systems  
**Therma-Tron-X, Inc.**  
**Torch Surface Technologies**  
Trimac Industrial Systems, LLC

### Vapor Degreasers

EnviroServe Chemicals Inc.  
**George Koch Sons, LLC**  
Henkel Corporation  
Trimac Industrial Systems, LLC

## PRETREATMENT, MECHANICAL

### Blast Equipment

TQC-USA, Inc.

### Vibratory Equipment

**Nordson Corporation**  
**Sames-Exel North America, Inc.**

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Aegis Industrial Finishing  
Aesthetic Finishers Inc.  
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Akzo Nobel Coatings Inc./Anterpon Powder Coatings  
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American Powder Coatings, Inc.  
Americana Powder Finishing LLC  
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Ameristar Perimeter Security USA Inc  
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Applied Powdercoat, Inc.  
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Bega-US  
BEX Incorporated  
Briggs & Stratton Corp.  
Builders Screen & Aluminum / ABC Powdercoating  
Bulk Chemicals, Inc.  
BUSS USA  
BYK-Gardner USA  
Calvary Industries, Inc.  
Caplugs/Shercon  
Cardinal Paint and Powder  
Carrara Industries, Inc.  
Challenger Designs  
Chemark Consulting Group, Inc.  
Chemetall US, Inc.  
ChemQuest Group, Inc., The  
Cherokee Millwright, Inc.  
Chesapeake Coating Inc.  
Classic Coatings, Inc.

Coatings Plus  
Col-Met Engineered Finishing Solutions  
Colourific Coatings Ltd.  
Consolidated Machine & Welding, LLC  
Consolidated Storage Companies, Inc.  
Coral Chemical  
Creative Coatings  
Crown Group, Inc., The  
CURT Manufacturing  
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Custom Mechanical Equipment  
Custom Metal Coating, Inc.  
Custom Performance Coating  
C-W Elaborations  
D & S Color Supply, Inc.  
Danick Specialties & Support Inc.  
Datapaq - Fluke Process Instruments  
Decoral System USA Corp.  
Defelsko Corporation  
Deloka, LLC  
Desert Coating Solutions  
Diamond Custom Coatings, Inc.  
Digger Specialties, Inc.  
Dinar Manufacturing  
Dinamex Systems, LLC  
Direct Embed Coating Systems, LLC  
Dishman Fabrications & Powder Coating  
Douglas Finishing  
DSM Powder Coating Resins, Inc.  
DuBois Chemicals  
DVUV  
Eastman Chemical Co.  
Eaton Fabricating Co., Inc.  
Echo Engineering & Production Supplies Inc.  
Elcometer, Inc.  
Elite Fence Products  
EMF Company, Inc., The  
Empire Coatings, LLC  
Engineered Finishing Systems  
EnviroServe Chemicals Inc.  
EPSI (Engineered Products & Services Inc.)  
Erie Powder Coatings Inc.  
Estron Chemical, Inc.  
Everbrite, LLC  
Evonik Corporation  
Excell Coatings, Inc.  
Falcon Powder Coating  
FAMIS, Inc.  
Federal Signal  
Feeney Mfg Inc  
Fischer Technology Inc.  
Fisher Controls International, LLC  
Flory Industries, Inc.  
Forest Dental Products  
Fostoria Process Equipment, Div. of TPI Corp.  
Fusion Coatings, Inc.  
Gema USA  
Genesis de Baja California  
George Koch Sons, LLC  
Georgia Powder Coating Inc.  
Georgia Power Company (Customer Resource Center)  
Gill Powder Coating  
Graddall Industries, Inc.  
Greenfield Products, Inc.  
Greenheck Fan Corp.  
H.E. ORR Company  
Heartland Coatings & Fabrication  
Henkel Corporation  
Heraeus Noblelight America LLC  
Hope's Windows Inc.  
Hubbard-Hall Inc.  
Hubbell Wiegmann  
Hunter Douglas  
IDS Blast  
IGP North America  
Ikon Powder Coating, Inc.  
Industrial Coating Solutions  
Industrial Polishing Services, Inc.  
Ingham's Powder Coating  
Inland Powder Coating  
Intech Services, Inc.  
Integrated Manufacturing Solutions  
Intek Corporation  
IntelliFinishing  
Interstate Powder Coatings  
Iowa Powder Craft, LLC  
Isotec Security, Inc.  
J R Custom Metal Products, Inc.  
JIT Powder Coating Company  
Jor-Mac Company, The  
Kat Performance Coatings Inc.  
Kelly Group, The  
Kern Steel Fabrication, Inc.  
Kettle Moraine Coatings  
Key Tronic Corp.  
Keyland Polymer  
Keystone Koaing LLC  
Kinze Manufacturing Inc.  
Kirby Built Quality Products  
Kolene Corporation  
Kopacz Industrial Painting, Inc.  
KVF - Quad Corp.  
Landscapeforms Inc.  
LayerZero Power Systems, Inc.  
Leland Industries Inc.  
Lincoln Chemical Corporation  
Magic Rack / Production Plus  
Magnum Powder Coating, Inc.  
Matco Tools (A Danaher Division)  
Matcor Metal Fabrication  
Materials Processing, Inc.  
M-D Building Products  
Medina Powder Group  
Memphis Powder Coating, LLC  
Metal Depot, Inc.  
Metalcraft Inc.  
Metokote Corporation  
Micron Metal Finishing  
Middle Atlantic Products, Inc.  
Midwest Finishing Systems, Inc.

Midwest Powder Coating  
Mighty Hook, Inc.  
Mile High Powder Coating  
Milgard Manufacturing Inc.  
MOCAP  
Monarch Industrial Coatings  
Motion Laboratories Inc.  
MTEST  
Muskegon Powder Coating  
Niko Industries  
NikoTrack LLC  
Nissan Chemical Industries, Ltd.  
Nix Powder Coating and Painting, LLC  
Nordson Corporation  
Norstar  
North Basin Coating, Inc.  
Northwest Powder Coatings, Inc.  
NV Coatings  
O'Leary Built Bicycles  
Pacific Powder Coating, Inc.  
Par-Kan Company  
Parker Ionics  
Patriot Powder Coatings  
PCI  
PDP, LLC  
Pioneer Powder Coatings LLC  
PJ Trailers Mfg Co., Inc.  
P.J's Fabricating Inc.  
Pneu-Mech Systems Mfg. Inc.  
Pollution Control Products  
Porta-King Building Systems  
Porter Corp  
Powder Coated Tough Magazine  
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Powder Coating Specialties, Inc.  
Powder Coatings of Utah  
Powder Paint, Inc.  
Powder Tech, LLC  
Powdertronic SA de CV  
Powell Industries  
PPG Industries  
Precor  
Premier Powder Coating & Custom Fabrication, LLC  
Pretreatment Equipment Manufacturing, Inc. (P.E.M., Inc.)  
Prime Restoration  
Procoat  
Products Finishing (Gardner)  
Progressive Coating  
Pro-Kote, LLC  
Qualicoat, Inc.  
Quality Product Finishing, Inc.  
Rapid Engineering LLC  
Rapid Industries, Inc.  
Ray Paul Coating, Inc.  
Reliance Foundry Co. Ltd.  
Reliant Finishing Systems  
Richards-Wilcox Conveyor  
Rodda Paint Co.  
RollSeal  
Rugged Werx  
S & B Finishing  
Sames-Exel North America, Inc.  
Schneider Electric  
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Slucom Equipment Inc.  
Southern Fluid Systems  
Southwell Co., The  
Spectrum Metal Finishing, Inc.  
Star Finishes Inc.  
Steel King Industries, Inc.  
Stepan Company  
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StyleLine Div. of Bavaro Ltd.  
Suburban Steel Supply Co.  
Sumitomo Corporation of Americas  
Sun Polymers International Inc.  
SunDial Industries, Inc.  
Sunset Powder Coating  
Superior Powder Coating, LLC  
Tape Industrial Sales, Inc.  
Tarsco Bolted Tank  
TCI Powder Coatings - RPM International, Inc.  
Technical Glass Products  
Technicote  
Therma-Tron-X, Inc.  
Tiger Drylac USA, Inc.  
Top Gun Powder Coating, LLC  
Torch Surface Technologies  
TQC-USA, Inc.  
Trimac Industrial Systems, LLC  
Trimitte Powders, Inc.  
Troy Chemical Industries, Inc.  
Troy Corporation  
Tru-Line Manufacturing  
U.S. Wheel, Inc. dba Detroit Wheel and Tire  
Uni-Spray Systems, Inc.  
United Alloy, Inc.  
Universal Electric Corporation  
Valmont Coatings-Applied Coating Technology  
Valspar  
Vanwin Coatings of VA, LLC  
Vogel Industrial Coatings  
Wagner Systems, Inc.  
Westside Finishing Co.  
Williams-Hayward Protective Coatings, Inc.  
Winona Powder Coating  
Woelco Labeling Solution  
Xerox Research Centre of Canada  
Zippo Manufacturing Company  
Zoeller Company



**CONSULTING SERVICES**

**Powder Coating**

Danick Specialties & Support, Inc.  
**Engineered Finishing Systems**  
**Gema USA**

**George Koch Sons, LLC**

Heraeus Noblelight America, LLC  
 Keyland Polymer

**Nordson Corporation**

Patriot Powder Coatings  
 Pollution Control Products  
 Powder Coating Consultants, Division of Ninan, Inc.  
 Powder Coating Research Group, Inc.  
 Reliant Finishing Systems

**Sames-Exel North America, Inc.**

Tiger Drylac USA, Inc.  
 Trimac Industrial Systems, LLC  
 Xerox Research Centre of Canada

**Powder Coating Certification Programs**

Powder Coating Consultants, Division of Ninan, Inc.

**Product Development**

**ChemQuest Group, Inc., The**  
 Danick Specialties & Support, Inc.  
 Keyland Polymer  
**Nordson Corporation**

Powder Coating Consultants, Division of Ninan, Inc.  
 Powder Coating Research Group, Inc.  
 Tiger Drylac USA, Inc.  
 Xerox Research Centre of Canada

**Software**

Powder Coating Consultants, Division of Ninan, Inc.

**Systems Design**

Calvary Industries, Inc.  
**Engineered Finishing Systems**  
**Gema USA**

**George Koch Sons, LLC**

Henkel Corporation  
 Heraeus Noblelight America, LLC

**IntelliFinishing**

Keyland Polymer  
**Mighty Hook, Inc.**

NikoTrack, LLC

**Nordson Corporation**

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 Powder Coating Consultants, Division of Ninan, Inc.  
 Reliant Finishing Systems  
 Trimac Industrial Systems, LLC

**Technical Training**

**Baker Perkins**  
**ChemQuest Group, Inc., The**  
 Danick Specialties & Support, Inc.

**Gema USA**

**George Koch Sons, LLC**

**Nordson Corporation**

**Parker Ionics**

Powder Coating Consultants, Division of Ninan, Inc.  
 Powder Coating Research Group, Inc.  
 Tiger Drylac USA, Inc.  
 Trimac Industrial Systems, LLC

**Third Party Testing**

**ACT Test Panels, LLC**

**ChemQuest Group, Inc., The**

Danick Specialties & Support, Inc.  
 Heraeus Noblelight America, LLC

**Nordson Corporation**

Powder Coating Consultants, Division of Ninan, Inc.  
 Powder Coating Research Group, Inc.

**Troubleshooting**

**Baker Perkins**

Danick Specialties & Support, Inc.

**Gema USA**

**George Koch Sons, LLC**

Magic Rack / Production Plus

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Unlike multi-purpose extruders, Baker Perkins' motors are specifically chosen for powder coating applications. By specifying the precise power and torque required, output can be maximized without wasting energy. The extruder's efficiency and lifespan is increased by reducing wear, and long term maintenance costs are cut.

**Unique Through-Shaft Cooling for Improved Product Quality**

Baker Perkins' unique through-shaft cooling technique increases heat removal from the shafts and screw elements, removing hot spots from the mixing edges. This reduces pre-melt on the feed screws and eliminates the pre-curing of product in the extruder barrel, giving an overall better quality. Through-shaft cooling increases reliability and cleanliness, and avoids complications such as contamination from leaks.

**Clamshell Construction for Easy Access and Cleaning**

Straightforward set-up and adjustment means that very little operator attention is required for efficient running. The clamshell barrel can be opened quickly and easily for regular cleaning or changing the screws, while the open-frame design and high ground clearance mean that it is very easy to keep the area around the machine clean.

**Condition Monitoring System for Reduced Maintenance Costs**

A condition monitoring system allows owners to easily observe their gearbox's condition, avoiding the costs of unexpected downtime and improving maintenance scheduling. A simple system allows the frequency and amplitude of vibrations within the gearbox to be continuously monitored to determine the ongoing condition of vital components.

**High Quality with Low Production Costs**

High torque-capacity, high free-volume geometry and uniform barrel heating ensure that consistency is maintained under all operating conditions. Quality is maintained at high output or with low bulk density materials. Quick start-up, reliable operation and rapid changeover keep operating costs low. All wear parts are long-lasting and easily replaced, and when combined with the ultra-low maintenance drive train result in minimal maintenance costs.

**Consistent, Continuous Production**

Continuous processing overcomes many drawbacks of batch processing: reducing many process stages to one lowers investment, energy, labor and space requirements. Batch to batch variation is eliminated and process control is improved. Continuous processing minimizes start-up and shut-down waste, which can be further reduced by recycling materials.

**Full Process Support: From Specification to Optimization**

Baker Perkins offers support for all powder coating applications, from initial project discussion and specification to line commissioning and ongoing process optimization advice. Our experts are available for site visits worldwide, as well as product trials and phone support at every stage of a project and beyond. This support and process refinement advice guarantees efficient and reliable operations that produces the highest end-product quality at the lowest running cost, time after time.

**Contact:**

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3223 Kraft Ave. S.E  
Grand Rapids  
Michigan  
49512-2027 USA

Tel: +1 616 784 3111  
Fax: +1 616 784 0973  
E-mail: [bpinc@bakerperkins.com](mailto:bpinc@bakerperkins.com)  
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Twin-screw extrusion is widely acknowledged to be the most versatile process for the manufacture of powder coatings. Baker Perkins pioneered the introduction of twin-screw extruders, and has been at the forefront of powder coatings extrusion technology ever since.

MP24 Laboratory Production Extruder



Baker Perkins manufactures a comprehensive range of twin-screw extruders specifically for powder coating

production, from the MP24 for small batch production, up to the MP80 for outputs of 2,900kg/ hour.

MP80 Production Extruder



Our extruders have been specifically engineered for the requirements of

the process, with features that maintain consistent quality while keeping running costs low. They are suitable for all types of powder coating formulations, including epoxy, hybrids, polyester, acrylics and fines recycling.



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### Alabama

Arlon Mechanical Service Co., Inc.  
Tru-Line Manufacturing

### Arizona

Anderson Painting Co.  
Desert Coating Solutions

### California

Applied Powdercoat, Inc.  
Fusion Coatings, Inc.  
Ikon Powder Coating, Inc.  
Industrial Polishing Services, Inc.  
Inland Powder Coating  
Kern Steel Fabrication, Inc.  
Pacific Powder Coating, Inc.  
Star Finishes, Inc.  
SunDial Industries, Inc.

### Colorado

C-W Elaborations  
Mile High Powder Coating  
Powder Coating Specialties, Inc.  
Structural Coatings, LLC

### Florida

A.M. Metal Finishing, Inc.  
Excell Coatings, Inc.  
Heartland Coatings & Fabrication

### Georgia

Georgia Powder Coating, Inc.  
Ray Paul Coating, Inc.  
Top Gun Powder Coating, LLC

### Hawaii

Sunset Powder Coating

### Idaho

Coatings Plus  
Metalcraft Inc  
Premier Powder Coating & Custom  
Fabrication, LLC

### Illinois

Americana Powder Finishing, LLC  
B.L. Downey Company, LLC  
Custom Metal Coating, Inc.  
Kat Performance Coatings, Inc.  
KVF - Quad Corp.  
Micron Metal Finishing  
Progressive Coating  
S & B Finishing

### Indiana

Carrara Industries, Inc.  
Creative Coatings  
IDS Blast  
Kelly Group, The  
Nix Powder Coating and Painting, LLC  
Winona Powder Coating

### Iowa

Interstate Powder Coatings  
Iowa Powder Craft, LLC

### Kansas

J R Custom Metal Products, Inc.  
Powder Tech, LLC

### Louisiana

Advanced Powder Coating, LLC  
Niko Industries

### Maryland

A & A Global Industries  
Chesapeake Coating, Inc.  
Custom Performance Coating

### Massachusetts

Diamond Custom Coatings, Inc.  
Westside Finishing Co.

### Michigan

Abcor Industries  
Crown Group, Inc., The  
Kopacz Industrial Painting, Inc.  
Magnum Powder Coating, Inc.  
Materials Processing, Inc.  
U.S. Wheel, Inc. dba Detroit Wheel  
and Tire

### Minnesota

Associated Finishing, Inc.  
Douglas Finishing  
Integrated Manufacturing Solutions  
JIT Powder Coating Company  
Valmont Coatings-Applied Coating  
Technology

### Missouri

American Powder Coating, LLC  
Builders Screen & Aluminum/  
ABC Powdercoating  
Powder Paint, Inc.

### Montana

Industrial Coating Solutions

### Nebraska

Midwest Powder Coating

### New Jersey

Direct Embed Coating Systems, LLC

### New Mexico

Absolute Powder Coating, LLC

### New York

Advanced Surface Finishing, Inc.  
Deloka, LLC  
Motion Laboratories, Inc.  
Qualicoat, Inc.

### North Carolina

Superior Powder Coating, LLC

### Ohio

A Plus Powder Coaters, Inc.  
Aesthetic Finishers, Inc.  
DVUV  
Greenfield Products, Inc.  
Medina Powder Group  
MetoKote Corporation  
PJ's Fabricating, Inc.  
Sewah Studios  
Spectrum Metal Finishing, Inc.  
Suburban Steel Supply Co.

### Oklahoma

ABITL Finishing, Inc.  
Custom Mechanical Equipment  
Muskogee Powder Coating

### Pennsylvania

Advanced Coating Technology  
Gill Powder Coating  
Ingham's Powder Coating  
Keystone Coating, LLC

### Rhode Island

Teknicote

### Tennessee

ABJ Custom Powder Coating  
Cherokee Millwright, Inc.  
Memphis Powder Coating, LLC  
Prime Restoration  
Pro-Kote, LLC

### Texas

3P Industries, Inc.  
AZZ Galvanizing Services  
Metal Depot, Inc.  
North Basin Coating, Inc.  
Quality Product Finishing, Inc.

### Utah

Powder Coatings of Utah

### Virginia

ASCO  
Dishman Fabrications & Powder  
Coating  
NV Coatings  
Vanwin Coatings of VA, LLC

### Washington

Key Tronic Corp.  
Northwest Powder Coatings, Inc.

### Wisconsin

All-Color Powder Coating, Inc.  
Classic Coatings, Inc.  
Empire Coatings, LLC  
Everbrite, LLC  
Jor-Mac Company, The  
Kettle Moraine Coatings  
Kirby Built Quality Products

### Wyoming

Rugged Werx

## CANADA

### British Columbia

Aegis Industrial Finishing  
Falcon Powder Coating

### Manitoba

Monarch Industrial Coatings

### Ontario

Colourific Coatings Ltd.  
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Procoat

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Fostoria Process Equipment, Div. of TPI Corp.

#### Gema USA

#### Nordson Corporation

#### Parker Ionics

#### Pneu-Mech Systems Mfg. Inc.

Reliant Finishing Systems

#### Therma-Tron-X, Inc.

Trimac Industrial Systems, LLC  
Wagner Systems, Inc.

### Cartridge

#### Col-Met Engineered Finishing Solutions

#### Gema USA

#### Nordson Corporation

#### Parker Ionics

#### Pneu-Mech Systems Mfg. Inc.

Reliant Finishing Systems  
Trimac Industrial Systems, LLC  
Wagner Systems, Inc.

### Control Systems

Calvary Industries, Inc.  
Heraeus Noblelight America LLC  
RollSeal

#### Sames-Exel North America, Inc.

#### Therma-Tron-X, Inc.

### Fluidized Bed

#### Sames-Exel North America, Inc.

### Robots

Trimac Industrial Systems, LLC

### Spray Applicators

#### Gema USA

Trimac Industrial Systems, LLC  
Wagner Systems, Inc.

### Spray Applicators, Powder Bells

#### Gema USA

#### Nordson Corporation

Trimac Industrial Systems, LLC

### Tribo Applicators

#### Gema USA

#### Nordson Corporation

Trimac Industrial Systems, LLC  
Wagner Systems, Inc.

## SYSTEM DESIGN

### Finishing Systems Engineering & Installation (Systems Houses)

#### Col-Met Engineered Finishing Solutions

Fostoria Process Equipment, Div. of TPI Corp.

#### George Koch Sons, LLC

Midwest Finishing Systems, Inc.

#### Parker Ionics

#### Pneu-Mech Systems Mfg. Inc.

Powder Coating Consultants, Division of Ninan, Inc.  
Richards-Wilcox Conveyor  
RollSeal

#### Sames-Exel North America, Inc.

#### Therma-Tron-X, Inc.

Trimac Industrial Systems, LLC

### Powder Application Rooms/Clean Rooms/ Environmental Rooms

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#### Engineered Finishing Systems

#### George Koch Sons, LLC

Midwest Finishing Systems, Inc.

#### Pneu-Mech Systems Mfg. Inc.

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#### Akzo Nobel Coatings, Inc./Interpon Powder Coatings

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### Thermoplastics, Polypropylene (PP)

#### Akzo Nobel Coatings, Inc./Interpon Powder Coatings

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### Thermoplastics, Polyvinylidene Fluoride (PVDF)

#### Akzo Nobel Coatings, Inc./Interpon Powder Coatings

Decoral System USA Corp.

### IGP North America

PPG Industries

### Thermoplastics, Vinyl

#### Akzo Nobel Coatings, Inc./Interpon Powder Coatings

Decoral System USA Corp.

Pioneer Powder Coatings, LLC

### Thermoset, Acrylic

#### Akzo Nobel Coatings, Inc./Interpon Powder Coatings

#### American Powder Coatings, Inc.

AmeriCoats

Cardinal Paint and Powder

Erie Powder Coatings, Inc.

### IGP North America

Powder Coating Research Group, Inc.

PPG Industries

Sherwin-Williams Company

TCI Powder Coatings - RPM International, Inc.

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### Thermoset, Epoxy

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AmeriCoats

#### Axalta Coating Systems

### Cardinal Paint and Powder

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Evonik Corporation

### IGP North America

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Powder Coating Research Group, Inc.

PPG Industries

Rodda Paint Co.

Sherwin-Williams Company

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### Thermoset, Fusion Bonded Epoxy

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### Thermoset, Hybrids

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## PC CHARACTERISTICS

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#### Axalta Coating Systems

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Decoral System USA Corp.

Erie Powder Coatings, Inc.

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PPG Industries

Sherwin-Williams Company

TCI Powder Coatings - RPM International, Inc.

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*Continued on page 24*

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continued from page 23*

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Decoral System USA Corp.  
Erie Powder Coatings, Inc.

### **IGP North America**

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Powder Coating Research Group, Inc.  
PPG Industries

TCI Powder Coatings - RPM International, Inc.  
Tiger Drylac USA, Inc.

### **Clearcoats**

### **Akzo Nobel Coatings, Inc./Interpon Powder Coatings**

### **American Powder Coatings, Inc.**

AmeriCoats

### **Axalta Coating Systems**

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Decoral System USA Corp.  
Erie Powder Coatings, Inc.

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Pioneer Powder Coatings, LLC  
Powder Coating Research Group, Inc.  
PPG Industries

Sherwin-Williams Company  
TCI Powder Coatings - RPM International, Inc.  
Tiger Drylac USA, Inc.  
Troy Corporation

Vogel Industrial Coatings

### **Conductive**

### **Akzo Nobel Coatings, Inc./Interpon Powder Coatings**

### **American Powder Coatings, Inc.**

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Decoral System USA Corp.  
Erie Powder Coatings, Inc.  
Pioneer Powder Coatings, LLC  
Powder Coating Research Group, Inc.  
PPG Industries

Sherwin-Williams Company  
TCI Powder Coatings - RPM International, Inc.  
Tiger Drylac USA, Inc.  
Trimite Powders, Inc.

### **Electrical Insulating**

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### **American Powder Coatings, Inc.**

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Powder Coating Research Group, Inc.  
PPG Industries  
Sherwin-Williams Company  
TCI Powder Coatings - RPM International, Inc.  
Tiger Drylac USA, Inc.

### **FDA/NSF compliant**

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### **American Powder Coatings, Inc.**

AmeriCoats

### **Axalta Coating Systems**

Cardinal Paint and Powder

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Pioneer Powder Coatings, LLC  
Powder Coating Research Group, Inc.  
PPG Industries  
Sherwin-Williams Company  
TCI Powder Coatings - RPM International, Inc.  
Tiger Drylac USA, Inc.  
Trimite Powders, Inc.

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### **American Powder Coatings, Inc.**

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Decoral System USA Corp.  
Erie Powder Coatings, Inc.  
Powder Coating Research Group, Inc.  
Sherwin-Williams Company  
Tiger Drylac USA, Inc.  
Trimite Powders, Inc.  
Vogel Industrial Coatings

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### **American Powder Coatings, Inc.**

AmeriCoats

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Evonik Corporation  
Keyland Polymer  
Pioneer Powder Coatings, LLC  
Powder Coating Research Group, Inc.  
PPG Industries  
Sherwin-Williams Company  
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Tiger Drylac USA, Inc.  
Trimite Powders, Inc.

### **Hammertones**

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### **American Powder Coatings, Inc.**

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 Vogel Industrial Coatings

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**Axalta Coating Systems**  
 Cardinal Paint and Powder  
 Decoral System USA Corp.  
 Erie Powder Coatings, Inc.

**IGP North America**

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 Powder Coating Research Group, Inc.  
 PPG Industries  
 TCI Powder Coatings - RPM International, Inc.  
 Tiger Drylac USA, Inc.

**High-Temperature Resistant**

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 American Powder Coatings, Inc.**

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**Axalta Coating Systems**  
 Cardinal Paint and Powder  
 Decoral System USA Corp.  
 Erie Powder Coatings, Inc.

**IGP North America**

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 Intech Services, Inc.  
 Powder Coating Research Group, Inc.  
 Sherwin-Williams Company  
 TCI Powder Coatings - RPM International, Inc.  
 Tiger Drylac USA, Inc.

**Meets Military Specs**

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 American Powder Coatings, Inc.**

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 Cardinal Paint and Powder  
 Decoral System USA Corp.  
 Erie Powder Coatings, Inc.

Evonik Corporation  
 Powder Coating Research Group, Inc.  
 PPG Industries  
 Sherwin-Williams Company  
 TCI Powder Coatings - RPM International, Inc.  
 Tiger Drylac USA, Inc.

**Metallics**

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 American Powder Coatings, Inc.**

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**Axalta Coating Systems**  
 Cardinal Paint and Powder  
 Decoral System USA Corp.  
 Erie Powder Coatings, Inc.

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*Continued on page 26*



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*Powder Coatings, Metallics,  
continued from page 25*

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## **Metallics, Bonded**

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AmeriCoats

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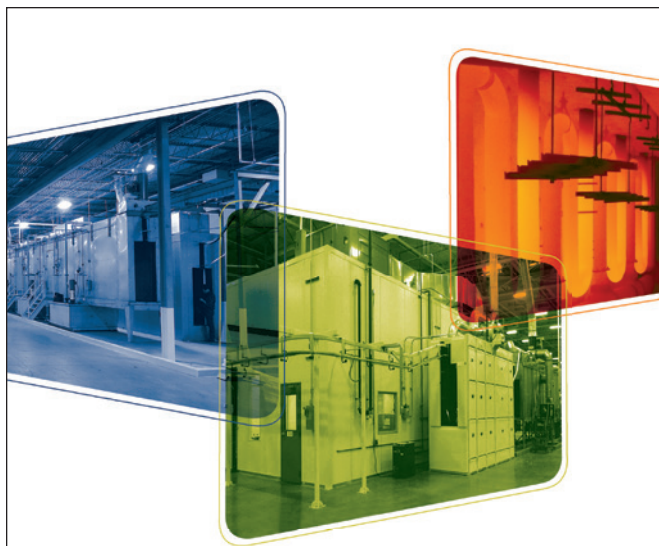
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# Holiday Testing of Enamel Coatings on Equipment

Vitreous enamel or porcelain enamel makes an excellent anti-corrosion barrier for boilers and tanks used in the chemical and pharmaceutical industries because it is impervious to high temperatures and chemically reactive substances. This protection is only guaranteed if the coating is 100% continuous and has no pores, cracks, or other defects that could allow exchange between the equipment and its contents. A porosity (holiday) tester is a reliable way to determine this.

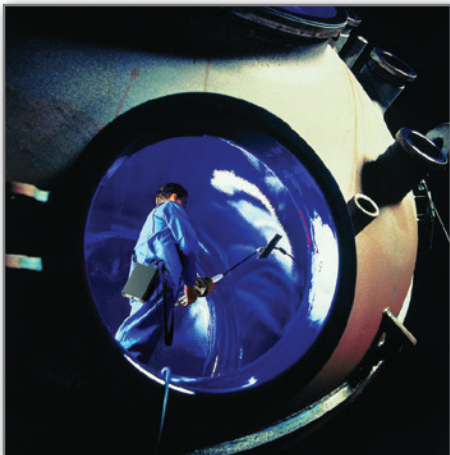
Steel tanks, pipes and mixers are often used in the manufacture of chemical and pharmaceutical products. To protect these parts from corrosion, they are coated with enamel 0.8-2.4 mm thick, depending on the requirements at hand. To ensure 100% protection, the enamel must be checked for gaps: To this end, the ISO 2746 standard test A for enameled articles for service under highly corrosive conditions specifies that the electrode of a high-voltage probe be moved slowly across the surface of the enamel. If the layer's electrically insulating effect is interrupted (indicating a pore), the voltage drops suddenly. It is this voltage drop that is detected and signaled by the testing instrument.



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Porosity (or holiday) testing ideally takes place right after the enameling process. The voltage applied is typically between 12 and 20 kV, depending on the thickness of the enamel layer. Based on the values laid out in the ISO 2746 standard, the correct voltage can be set directly on the probe head. Regular porosity evaluation during the fabrication of such pipes, tanks and mixers is the only way to verify the integrity of the enamel – a critical barrier that not only provides for corrosion protection of these components but also safeguards against contamination of their valuable contents.

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<< MEMBERSHIP MEMO



## How PCI Can Benefit You

I want to stress the benefits of membership and more importantly the benefits of attending events. I would hope to encourage others to join and participate in The Powder Coating Institute (PCI). Members can gain information from PCI programs, and we can learn from each other's experiences.

### Have a Voice

As part of the powder coating industry, have your voice heard. PCI membership allows you to join the committees that are important to you and have issues that are important to you addressed or at least be a point of discussion. Be an advocate for your company or industry by being a member and participating as a PCI member.

### Education

As a supplier, this education is very important. Staying up on any new developments and being able to discuss these with customers is critical to supplying the best systems. Knowing the latest trends in powder coatings, pretreatment, powder curing, system design, and application methods can help customers be more efficient and profitable.

### Networking

For customers, the benefits are knowing suppliers in a non-commercial atmosphere and staying current on new developments of all parts of the coating industry. It is important to understand the types of powders for different environments for different products. Also you may meet other manufacturing companies trying to solve similar issues or striving to achieve higher levels of quality.

So again, I just want to stress my appreciation for all the benefits that The Powder Coating Institute brings to its members.

Marty Powell is business development manager at Engineered Finishing Systems LLC in Crystal Lake, Ill. He can be reached at 815-893-6090 or via email at [marty.powell@engineeredfinishingsystems.com](mailto:marty.powell@engineeredfinishingsystems.com).



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St. Charles, IL 60174  
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Fax: 630-762-0111  
www.americanpowder.com

### Americana Powder Finishing, LLC

#2 Industrial Dr.  
Salem, IL 62881  
618-548-2800  
www.americanapowder.com

### AmeriCoats

3429 N. Runge St.  
Franklin Park, IL 60131  
847-455-1400  
Fax: 847-455-2797  
www.americoats.com

### Anderson Development Company

1415 E. Michigan St.  
Adrian, MI 49221  
517-263-2121  
Fax: 517-263-1000  
www.andersondevelopment.com

### Anderson Painting Co.

6210 S. Country Club Rd.  
Tucson, AZ 85706  
520-792-0751  
Fax: 520-882-5935  
www.andersonpaintingco.com

### Applied Powdercoat, Inc.

3101 Camino Del Sol  
Oxnard, CA 93030  
805-981-1991  
Fax: 805-981-1331  
www.appliedpowder.com

### Arkema Coating Resins

410 Gregson Dr.  
Cary, NC 27511  
919-469-6837  
www.arkemacoatingresins.com

### Arlon Mechanical Service Co., Inc.

28028 Copeland Rd.  
Athens, AL 35613  
256-444-1856  
Fax: 256-444-1909

### ASCO

5736 Sellger Dr.  
P.O. Box 12121  
Norfolk, VA 23502  
757-423-8600  
www.asconorfolk.com

### Associated Finishing, Inc.

320 Mallard Ln.  
Mankato, MN 56001  
866-345-5861  
Fax: 507-345-5828  
www.associatedfinishing.com

### Atotech

1750 Overview Dr.  
Rock Hill, SC 29730  
803-326-3470  
www.atotech.com



### Axalta Coating Systems

9800 Genard  
Houston, TX 77041  
800-247-3886  
Fax: 832-955-0562  
axaltacoatingsystems.com

### AZZ Galvanizing Services

3100 W. 7th St., Ste. 500  
Fort Worth, TX 76107  
817-810-0095  
Fax: 817-336-5354  
www.azzgalvanizing.com

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## B

**B.L. Downey Company, LLC**  
2125 Gardner Rd.  
Broadview, IL 60155  
800-323-1206  
Fax: 708-345-8017  
www.bldowney.com



**Baker Perkins**  
3223 Kraft Ave. SE  
Grand Rapids, MI 49512  
616-784-3111  
Fax: 616-784-0937  
www.bakerperkins.com

**BEX Incorporated**  
836 Phoenix Dr.  
Ann Arbor, MI 48108  
734-389-0464  
Fax: 734-389-0470  
www.BEX.com

**Builders Screen & Aluminum/  
ABC Powdercoating**  
230 Beachwood Dr.  
Sunrise Beach, MO 65079  
573-374-4114  
Fax: 573-374-4678  
www.buildersscreen.com

**Bulk Chemicals, Inc.**  
1074 Stinson Dr.  
Reading, PA 19605  
800-338-2855  
Fax: 610-926-6125  
www.bulkchemicals.us

**BYK-Gardner USA**  
9104 Guilford Rd.  
Columbia, MD 21046  
301-483-7214  
Fax: 301-483-0800  
www.byk.com

## C

**Calvary Industries, Inc.**  
9233 Seward Rd.  
Fairfield, OH 45014  
513-874-1113  
Fax: 513-860-6184  
www.calvaryindustries.com

**Caplugs/Shercon**  
2150 Elmwood Ave.  
Buffalo, NY 14207  
888-227-5847  
Fax: 716-874-1680  
www.caplugs.com

**Cardinal Paint and Powder**  
1329 Potrero Ave.  
South Del Monte, CA 91733  
626-444-9274  
Fax: 626-444-0382  
www.cardinalpaint.com

**Carrara Industries, Inc.**  
1619 W. Fifth St.  
Anderson, IN 46016  
765-643-3430  
Fax: 765-643-3336  
www.carraracoaters.com

**Chemark Consulting Group, Inc.**  
230 N. Bennett St., #3  
Southern Pines, NC 28387  
910-692-2492  
Fax: 910-692-2523  
www.chemarkconsulting.net

**Chemettal US, Inc.**  
675 Central Ave.  
New Providence, NJ 07974  
800-526-4473  
Fax: 908-464-2377  
www.ChemettalAmericas.com



**ChemQuest Group, Inc., The**  
8150 Corporate Park Dr., Ste. 250  
Cincinnati, OH 45242  
513-469-7555  
Fax: 513-469-7779  
www.chemquest.com

**Cherokee Millwright, Inc.**  
1034 Ross Dr.  
Maryville, TN 37801  
865-379-1500  
www.cherokeepowdercoat.com

**Chesapeake Coating, Inc.**  
3741 Commerce Dr., Ste. 314  
Baltimore, MD 21227  
410-737-7799  
Fax: 410-737-7794  
www.chescoat.com

**Classic Coatings, Inc.**  
809 Wilson Ave.  
Sheboygan, WI 53081  
877-398-9388  
Fax: 920-458-3748  
www.classicoatings.com

**Coatings Plus**  
512 E. 45th St.  
Garden City, ID 83714  
208-377-0900  
Fax: 208-375-1342  
www.coatingsplusboise.com



**Col-Met Engineered Finishing  
Solutions**  
2975 Discovery Blvd.  
Rockwall, TX 75032  
888-452-6684  
www.colmet.com

**Colourific Coatings Ltd.**  
6850 Davand Dr.  
Mississauga, ON L5T 1J5 Canada  
905-564-7300  
Fax: 905-564-5574  
www.colourificcoatings.com

**Coral Chemical**  
1915 Industrial Ave.  
Zion, IL 60099  
847-246-6666  
Fax: 847-246-6667  
www.coral.com

**Creative Coatings**  
7505 Freedom Way  
Fort Wayne, IN 46818  
260-489-3580  
Fax: 260-489-3643  
www.creativecoatingsinc.com

**Crown Group, Inc., The**  
2111 Walter Reuther Dr.  
Warren, MI 48091  
586-575-9800  
Fax: 586-575-9856  
www.thecrowngrp.com



**Custom Fabricating & Supplies**  
5500 W. Oakwood Park Dr.  
Franklin, WI 53132  
414-421-2600  
Fax: 414-421-2700  
www.customfabricate.com

**Custom Mechanical Equipment**  
2101 Hall Blvd.  
Ponca City, OK 74601  
580-762-4114  
Fax: 580-762-4117  
www.cmemultizone.com

**Custom Metal Coating, Inc.**  
960 Gardner St.  
South Beloit, IL 61080  
779-475-2070  
Fax: 779-475-2071  
www.mypowdercoat.com

**Custom Performance Coating**  
6800 Mid Cities Ave.  
Beltsville, MD 20705  
443-336-2105  
www.customperformancecoating.com

**C-W Elaborations**  
2430 W. 62nd Ct.  
Denver, CO 80221  
303-292-5590  
Fax: 303-292-5597  
www.cwelaborations.com

**D & S Color Supply, Inc.**  
17981 Englewood Dr.  
Middleburg Heights, OH 44130  
216-276-0406  
Fax: 440-816-2500  
www.dscoloursupply.com

## D

**Danick Specialties & Support, Inc.**  
1390 Windward Ln.  
Niceville, FL 32578  
850-897-3152  
Fax: 850-897-0393  
www.danickspecialties.com

**Datapaq - Fluke Process Instruments**  
3 Corporate Park Dr., Unit 1  
Derry, NH 03038  
603-537-2680  
Fax: 603-537-2685  
www.datapaq.com

**Decoral System USA Corp.**  
12477 NW 44th St.  
Coral Springs, FL 33065  
954-755-6021  
Fax: 954-755-6029  
www.decoralamerica.com



**DeFelsko Corporation**  
800 Proctor Ave.  
Ogdensburg, NY 13669-2205  
315-393-4450  
Fax: 315-393-8471  
www.defelsko.com

**Deloka, LLC**  
150 Dunn Rd.  
Lyons, NY 14489  
315-946-6910  
Fax: 315-946-6949  
www.deloka.com

**Desert Coating Solutions**  
3427 W Broadway Rd.  
Phoenix, AZ 85041  
602-253-7875  
Fax: 602-253-7860  
www.desertpowder.com

**Diamond Custom Coatings, Inc.**  
3 Progress Ave.  
Westfield, MA 01085  
413-562-2734  
Fax: 413-562-4215  
www.diamondcoatingsinc.com



**Digilube Systems, Inc.**  
216 E. Mill Street  
Springboro, OH 45066  
800-837-5667  
Fax: 937-748-0597  
www.digilube.com



**Dinamec Systems, LLC**  
4285 McEver Industrial Dr., NW  
Acworth, GA 30101  
770-421-1181  
Fax: 770-421-8611  
www.dinamecsystems.com

**Direct Embed Coating Systems, LLC**  
6 Morris Street  
Paterson, NJ 07501  
973-569-1111  
Fax: 973-907-1642  
www.directembedcoating.com

**Dishman Fabrications & Powder Coating**  
201 D Production Dr.  
Yorktown, VA 23693  
757-223-0458  
Fax: 757-223-0710  
www.dishman-fabrications.com

**Douglas Finishing**  
1602 36th Ave. West  
Alexandria, MN 56308  
320-762-6235  
Fax: 320-762-6884  
www.douglasfinishing.com

**DSM Powder Coating Resins, Inc.**  
31 Columbia Nitrogen Rd.  
Augusta, GA 30903  
800-277-9975  
Fax: 706-849-6682  
www.dsmpowdercoatingresins.com

**DuBois Chemicals**  
3630 E. Kemper Rd.  
Sharonville, OH 45241  
800-438-2647  
Fax: 513-326-8317  
www.duboischemicals.com

**DVUV**  
4641 Hinckley Industrial Pky.  
Cleveland, OH 44109  
216-741-5511  
Fax: 216-741-6611  
www.dvuv.com

## E

**Eastman Chemical Co.**  
P.O. Box 431  
Kingsport, TN 37662  
423-229-2000  
Fax: 423-224-0648  
www.eastman.com

**Eaton Fabricating Co., Inc.**  
1009 McAlpin Ct.  
Grafton, OH 44044  
440-926-3121  
Fax: 440-926-3406  
www.eatonfabricating.com



**Echo Engineering & Production  
Supplies, Inc.**  
5406 W. 78th St.  
Indianapolis, IN 46268  
888-324-6365  
Fax: 317-875-0035  
www.echosupply.com

**Elcometer, Inc.**  
1893 Rochester Industrial Dr.  
Rochester Hills, MI 48309  
800-521-0635  
Fax: 248-650-0501  
www.elcometerusa.com

**Empire Coatings, LLC**  
655 Triangle Rd.  
Fond du Lac, WI 54935  
920-269-8200  
Fax: 920-269-2217  
www.empire-coatings.com



**Engineered Finishing Systems**  
390 E. Congress Pky., Ste. J  
Crystal Lake, IL 60014-8180  
815-893-6090  
Fax: 815-459-6051  
www.engineeredfinishing.com

**EnviroServe Chemicals Inc.**  
603 S. Wilson Ave.  
Dunn, NC 28334  
910-892-1791  
Fax: 910-892-5765  
www.enviroservechemicals.com

**EPSI (Engineered Products &  
Services, Inc.)**  
4221 Courtney Rd.  
Franksville, WI 53126  
866-ASK-EPSI  
Fax: 262-253-3775  
www.epsi.com

**Erie Powder Coatings, Inc.**  
101 Loomis St.  
North East, PA 16428  
905-957-4086  
Fax: 905-957-4087  
www.eriepowder.com

**Estron Chemical, Inc.**  
807 North Main St.  
PO Box 127  
Calvert City, KY 42029  
270-395-4195  
Fax: 270-395-5070  
www.estrone.com

**Everbrite, LLC**  
401 S. Main St.  
Pardeeville, WI 53954  
608-429-2121  
www.everbrite.com

**Evonik Corporation**  
299 Jefferson Rd.  
Parsippany, NJ 07054-0677  
973-929-8567  
Fax: 973-929-8460  
www.evonik.com

**Excell Coatings, Inc.**  
745 Scallop Dr.  
Cape Canaveral, FL 32920  
888-721-8011  
Fax: 321-868-0229  
www.excellcoatings.com

## F

**Falcon Powder Coating**  
747 Fitzpatrick Rd.  
Kelowna, BC V1X5E2 Canada  
250-765-7277  
Fax: 250-765-3572  
www.falconpowdercoating.com

**FAMIS, Inc.**  
5689 N.W. 35 Ct.  
Miami, FL 33142  
305-638-8810  
Fax: 305-633-3840  
www.famisinc.com



**Fischer Technology, Inc.**  
750 Marshall Phelps Rd.  
Windsor, CT 06095-2199  
860-683-0781  
Fax: 860-298-6090  
www.fischer-technology.com

**Fostoria Process Equipment,  
Div. of TPI Corp.**  
114 Roscoe Fitz Rd.  
Gray, TN 37615  
423-497-4131  
Fax: 423-722-1470  
www.fostoria-tpi.com

**Fusion Coatings, Inc.**  
6589 Las Positas Rd.  
Livermore, CA 94551  
925-443-8083  
Fax: 925-443-8089  
www.fusioncoatingsonline.com

## G



**Gema USA**  
4141 W. 54th St.  
Indianapolis, IN 46254-3728  
800-628-0601  
Fax: 317-298-5010  
www.Gemapowdercoating.com

**Genesis de Baja California**  
Circuito de las Misiones Este #150  
Parque Industrial Las Californias  
Mexicali, 21330 Mexico  
686-561-8889  
genesisdebc.com.mx



**George Koch Sons, LLC**  
10 S. 11th Ave.  
Evansville, IN 47712  
888-873-5624  
Fax: 812-465-9676  
www.kochllc.com

**Georgia Powder Coating, Inc.**  
100 Zander Dr.  
Gainesville, GA 30504  
770-718-1382  
Fax: 770-718-1482  
www.georgiapowdercoating.com

**Georgia Power Company**  
(Customer Resource Center)  
4404 North Shallowford Rd.  
Atlanta, GA 30338  
770-216-1357  
Fax: 770-216-1392  
www.gpc.com

**Gill Powder Coating**  
1384 Byberry Rd.  
Bensalem, PA 19020  
215-639-5486  
Fax: 215-639-7560  
www.gillpowder.com

**Greenfield Products, Inc.**  
1230 N. Washington St.  
Greenfield, OH 45123  
937-981-2696  
Fax: 937-981-3466  
www.greenfieldproducts.com

## H

**Heartland Coatings & Fabrication**  
116 Commercial Pl.  
Sebring, FL 33876  
863-4461246  
www.heartlandcoatings.com

**Henkel Corporation**  
32100 Stephenson Hwy.  
Madison Heights, MI 48071  
800-521-6895  
Fax: 248-583-2976  
www.us.henkel.com

**Heraeus Noblelight America, LLC**  
1520 Broadmoor Blvd., Ste. C  
Buford, GA 30158  
678-835-5764  
Fax: 678-835-5765  
www.heraeus-thermal-solutions.com



**Hubbard-Hall, Inc.**  
563 South Leonard St.  
Waterbury, CT 06270  
866-4415831  
www.hubbardhall.com

## I

**IDS Blast**  
2717 Tobey Dr.  
Indianapolis, IN 46219  
317-545-0665  
Fax: 317-545-0670  
www.idsblast.com



POWDER COATINGS.

**IGP North America**  
13050 Middletown Industrial Blvd.  
Unit D  
Louisville, KY 40223  
502-242-7187  
www.igp-powder.com

**Ikon Powder Coating, Inc.**  
1375 N. Miller St.  
Anaheim, CA 92806  
714-961-0010  
Fax: 714-961-0080  
www.ikonpowdercoating.com

**Industrial Coating Solutions**  
45 Orchard Ln.  
Billings, MT 59101  
406-256-1124  
Fax: 406-256-7299  
www.icspowdercoat.com

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**Industrial Polishing Services, Inc.**  
9465 Custom House Plaza, Ste. H-1  
San Diego, CA 92154  
619-661-1691  
Fax: 619-710-4948  
www.ipsfinishing.com

**Ingham's Powder Coating**  
1860 North Reading Rd.  
Stevens, PA 17578  
717-336-8473  
Fax: 717-336-8294  
www.inghamspowdercoating.com

**Inland Powder Coating**  
P.O. Box 3427  
1656 S. Bon View Ave., Ste. F  
Ontario, CA 91761  
909-947-1122  
Fax: 909-923-7082  
www.inlandpowder.com

**Intech Services, Inc.**  
211 Lake Dr.  
Newark, DE 19702  
302-366-8530  
Fax: 302-366-8602  
www.intechservices.com

**Integrated Manufacturing Solutions**  
4571 Valley Ind. Blvd. So. #200  
Shakopee, MN 55379  
952-233-3233  
Fax: 952-233-3014  
www.e-ims.com

**Intek Corporation**  
290 Independence Dr.  
Union, MO 63056  
636-584-8500  
Fax: 636-584-8503  
www.intekcorp.com



**IntelliFinishing**  
418 E. Ave. B  
Salina, KS 67401  
785-309-0356  
Fax: 785-825-0590  
www.IntelliFinishing.com

**Interstate Powder Coatings**  
1400 W. 1st St.  
Sioux City, IA 51103  
712-898-3320  
Fax: 712-948-3260  
www.interstatepowdercoatings.com

**Iowa Powder Craft, LLC**  
306 14th Ave. South  
Clear Lake, IA 50428  
641-357-4445  
Fax: 641-357-4446  
www.iowapowdercraft.com

## J

**J R Custom Metal Products, Inc.**  
2237 S. West Street Ct.  
Wichita, KS 67213-1100  
316-263-1318  
www.jrcmp.com

**JIT Powder Coating Company**  
21020 Eaton Ave.  
Farmington, MN 55024  
651-463-4664  
Fax: 651-463-4627  
www.jitpowdercoating.com

**Jor-Mac Company, The**  
155 East Main St.  
Lomira, WI 53048  
920-269-8500  
Fax: 920-269-2217  
www.jor-mac.com

## K

**Kat Performance Coatings, Inc.**  
21838 Moens Rd.  
Atkinson, IL 61235  
309-936-1323  
Fax: 309-936-7886  
www.katcoatings.com

**Kelly Group, The**  
3310 Concord Rd.  
Lafayette, IN 47909  
765-474-1800  
Fax: 765-477-0154  
www.thekelly-group.com

**Kern Steel Fabrication, Inc.**  
627 Williams St.  
Bakersfield, CA 93305  
661-327-9588  
Fax: 661-327-5890  
www.kernsteel.com

**Kettle Moraine Coatings**  
W208 N16969 Center St.  
P.O. Box 640  
Jackson, WI 53037  
262-677-2291  
Fax: 262-677-4941  
www.kettlemorainecoatings.com

**Key Tronic Corp.**  
4424 N. Sullivan Rd.  
Spokane Valley, WA 99216  
509-927-5236  
www.keytronicems.com

**Keyland Polymer**  
4621 Hinckley Industrial Pky., Ste. 8  
Cleveland, OH 44109  
216-741-7915  
Fax: 216-741-7916  
www.keylandpolymer.com

**Keystone Coating, LLC**  
295 Woodcorner Rd.  
Lititz, PA 17543  
717-738-2148  
Fax: 717-738-7370  
www.keystonecoating.com

**Kirby Built Quality Products**  
5333 S Emmer Dr.  
New Berlin, WI 53151  
262-439-4101  
www.kirbybuilt.com

**Kolene Corporation**  
12890 Westwood St.  
Detroit, MI 48223  
313-273-9220  
Fax: 313-273-0251  
www.kolene.com

**Kopacz Industrial Painting, Inc.**  
12225 Merriman  
Livonia, MI 48150  
734-427-6740  
Fax: 734-427-4630

**KVF - Quad Corp.**  
808 13th St.  
East Moline, IL 61244  
800-383-1101  
Fax: 309-755-1121  
www.kvfquad.com

## L

**Leland Industries, Inc.**  
95 Commander Blvd.  
Toronto, ON M1S 3S9 Canada  
800-263-3393  
Fax: 416-291-0305  
www.lelandindustries.com

**Lincoln Chemical Corporation**  
4331 Eastland Dr.  
Elkhart, IN 46516  
888-588-3488  
Fax: 574-970-0500  
www.lincolnchemical.com

## M

**Magic Rack / Production Plus**  
2490 McGaw Rd. East  
Columbus, OH 43207-4513  
614-492-8811  
Fax: 614-492-8812  
www.magicrack.com

**Magnum Powder Coating, Inc.**  
5500 W. River Dr., NE  
Comstock Park, MI 49321  
616-785-3155  
Fax: 616-785-3605  
www.magnumpowdercoating.com

**Materials Processing, Inc.**  
17423 West Jefferson  
Riverview, MI 48193  
734-258-1262  
Fax: 734-282-1975  
www.mpi-usa.com

**Medina Powder Group**  
910 Lake Rd., Unit B  
Medina, OH 44256  
330-952-2711  
Medinapowdergroup.com

**Memphis Powder Coating, LLC**  
4989 E. Raines Rd.  
Memphis, TN 38118  
901-546-8104  
Fax: 901-546-8120  
www.memphispowdercoating.com

**Metal Depot, Inc.**  
3501 Edgar Brown Dr.  
Orange, TX 77630  
409-886-1636  
Fax: 409-882-0614  
www.metaldepotinc.com

**Metalcraft, Inc**  
1080 West Amity Rd.  
Boise, ID 83705  
208-368-0700  
Fax: 208-368-0600  
metalcraftidaho.com

**Metokote Corporation**  
1340 Neubrecht Rd.  
Lima, OH 45801  
419-996-7800  
Fax: 419-996-7801  
www.metokote.com

**Micron Metal Finishing**  
8585 S. 77th Ave.  
Bridgeview, IL 60455  
708-599-0055  
Fax: 708-599-8784  
www.micronmetalfinishing.com

**Midwest Finishing Systems, Inc.**  
1906 Clover Rd.  
Mishawaka, IN 46545  
574-257-0099  
Fax: 574-256-1098  
www.midwestfinishing.com

**Midwest Powder Coating**  
331 Road 3167, Bldg. 192E  
Hastings, NE 68901  
402-462-6362  
Fax: 866-636-2904



**Mighty Hook, Inc.**  
1017 North Cicero Ave.  
Chicago, IL 60651-3202  
773-378-1909  
Fax: 773-378-2083  
www.mightyhook.com

**Mile High Powder Coating**  
4275 S. Navajo St.  
Englewood, CO 80110  
303-789-1485  
Fax: 303-783-8998  
www.milehighpowdercoating.com

**MOCAP**  
409 Parkway Dr.  
Park Hills, MO 63601  
314-543-4000  
Fax: 314-543-4111  
www.mocap.com

**Monarch Industrial Coatings**  
269 Hespeler St. North  
Steinbach, MB R5G 2G8 Canada  
204-326-5891  
Fax: 204-326-5664

**Motion Laboratories, Inc.**  
520 Furnace Dock Rd.  
Cortlandt Manor, NY 10567  
800-227-6784  
www.motionlabs.com

**MTEST**  
2115 FM 1960 E, Ste. 4  
Humble, TX 77338  
281-359-2215  
Fax: 281-359-2218  
www.m-testco.com

**Muskogee Powder Coating**  
#9 Tantalum Pl.  
Muskogee, OK 74403  
918-348-4175  
www.muskogeepowdercoating.com

## N

### **Niko Industries**

42391 South Airport Rd.  
Hammond, LA 70403  
985-318-6456  
www.nikoindustries.com

### **NikoTrack, LLC**

300 Highpoint Ave.  
Portsmouth, RI 02871  
401-683-7525  
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# Ask Joe Powder

## AAMA Lookin' for Specs

**Q** Hi Joe,  
I am trying to locate specifications for different powder coat systems, including:

- TGIC polyester powder coat
- HAA polyester powder coat
- Epoxy powder coat

I have information for PVDF powder coat systems under AAMA 2604 and 2605. Any help you can provide would be greatly appreciated.

Thank you,  
Ron

**A** Hi Ron,  
Specifications are established nearly always based on performance rather than chemistry. The AAMA specifications used in the powder coating world are this way. Powder chemistries (e.g., polyester-TGIC, polyester-HAA, epoxy, etc.) can vary tremendously based on formulation. For instance, some polyester-TGIC formulas are only capable of passing AAMA 2603 whereas others pass AAMA 2604. Some epoxies pass a specification for laboratory furniture whereas others are used for gas and oil pipelines.

Hence it is not possible to provide a specification based on powder coating chemistry type but on the expected performance of the finish.

— Joe Powder

## You Sure It's Cured?

**Q** Dear Joe,  
I am using a gloss black polyester based powder paint in an environment where denatured alcohol is present. When the surface comes in contact with the denatured alcohol the gloss hazes over and becomes dull. Similarly, I have a polished steel/nickel plated part with an alcohol based liquid lacquer overcoat that is suffering the same fate.

I'm looking for the chemistry in a gloss black powder and a clear gloss powder that I can substitute for the lacquer that will survive the environment.

Thanks,  
Steven S.

**A** Hi Steve,  
Thanks for your question. Denatured alcohol will attack some powder coatings but not others. You mention that you're using a black high gloss polyester. Some polyesters are formulated for chemical resistance whereas others are more for decorative purposes. The one you're using may be the latter.

First, before you change coatings, ensure that the powder is achieving full cure. A less than fully cured powder will be attacked by organic solvents regardless of the chemistry. To check for cure, I recommend leaving the coated part in the cure oven for a longer period of time, say an additional 10 minutes and check the resistance to denatured alcohol. If it's acceptable, then problem solved.

If you see no change in resistance, then you should consider switching to a more chemical resistant product. Two chemistries immediately come to mind, polyurethanes and epoxies. Both provide very good to excellent solvent resistance. Epoxies fade in sunlight, so unless this product will never see the (direct) light of day, then you should opt for the polyurethane chemistry. Polyurethanes are a good choice for a high gloss finish as they have relatively low viscosity and provide a glossy surface even at somewhat thin films.

Regarding a clear coat to replace the lacquer, polyurethane is also a good choice. One thing to always keep in mind however, absolutely make sure that your coating is completely cured. Otherwise you cannot expect the film to resist chemical attack, chipping or scratches.

I hope that this helps.

— Joe Powder

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