

DECO GLASS COATINGS

Industrial Liquid Paints



Protech Group's industrial liquid coatings are engineered to deliver both exceptional protection and visual appeal across a wide range of applications. Developed across six specialized production sites in the U.S. and Canada, our coatings are formulated to resist corrosion while maintaining vibrant color and gloss over time. With both solvent-based and water-based technologies, our solutions can be precisely customized to meet specific performance, color, and application needs, offering flexibility in cost, VOC levels, and drying time to suit any project.



THE IDEA BEHIND THE DESIGN

Protech Group's innovative single component, BPA-free organic system is designed to meet the evolving needs of the deco glass industry. Whether it's a crystal-clear, high-gloss finish or a soft-touch, low-gloss frost with superior scratch and scuff resistance, this versatile solution delivers unmatched clarity and durability. Easily tinted to achieve a limitless range of colors and effects, it offers complete creative freedom for decorating a wide variety of glass containers. Backed by Protech's expert lab and sales teams, we work closely with decorators to ensure every project achieves the perfect look and performance.

FORMULATING THE DESIGN

Protech collaborated closely with a leading multi-line glass decorator to gain a deep understanding of the demands of the decorative glass industry. Our coatings were rigorously tested alongside those of top industry suppliers, undergoing real-world trials on thousands of glass containers through handling, shipping, and fill-line environments to ensure exceptional durability and performance. To support limitless design possibilities, we offer an extensive library of over two dozen color dispersions, multiple dyes, as well as metallic and pearlescent effects—empowering decorators to create virtually any color or finish imaginable.

RESULTS

After extensive trials and testing on multiply types of spray equipment and curing lines, Protech developed 2 glass decorating coatings, both with exceptional properties and durability.

223 Series – for quick dry to touch

421 Series – for inline cure



FEATURED SOLUTIONS

223 SERIES

Designed to be quick dry to touch for when glass needs to be handled for inspection, stenciling or transfer before cure.

- Urethane/ Acrylic hybrid bake system.
- Low cure – cure possible with glass temp of only 300F for 2-3 mins.
- Our lowest VOC glass coating.
- Our most robust glass coating.

421 SERIES

A wetter spray than the 223 system, the 421 Series is especially suited for electrostatic bell and multi-gun spray systems. For use with inline cure only as coating will not fully dry to touch until baked.

- Acrylic bake system.
- Best suited for multi-color wet layering or fades.

THE 223 & 421 SERIES

- Excellent glass adhesion
- Chemical, alcohol and water resistance
- Durable, scratch and scuff resistant
- Crystal clear transparency to fully opaque colors
- Gloss, frost and matte finish
- Same large array of tints, dyes, metallics, and pearlescent available
- UV protection

- UV ink decoration compatible
- One component with no pot life
- BPA free
- Cured film non-Prop 65 labeled low VOC
- Lower energy cure
- Available in base/tint system or ready to spray custom colors
- Storage-stable for up to one year



PROVEN PERFORMANCE

We are constantly striving to improve by researching new chemistries to solve whatever challenges our customers present to us. If our current product lines do not suit your exact requirements, we have the ability to custom engineer one that will. Through development, we always deliver the right mix.



Liquid coatings, such as the 223 and 421 Series, are developed and manufactured with state-of-the-art chemistries that comply with the latest environmental and operational regulations.

| | |
|-------------------------------|---|
| ADHESION | 0% loss from crosshatch and tape pull |
| CHEMICAL RESISTANCE | >200 MEK double rubs >100 IPA double rubs Passes tested perfume and lotion soaks |
| WATER SOAK | 5+ days – no loss of adhesion, no blistering, or loss of color 200+ dish washer cycles |
| HARDNESS / SCRATCH RESISTANCE | >3H pencil hardness, >6N sclerometer hardness |
| UV PROTECTION (OPTION) | Blocks 95% UVA and UVB |
| THERMAL SHOCK | Passes multiple freeze, thaw, heat cycles along with ice water soak |

TYPICAL APPLICATIONS

- Candle votives
- Vases
- Liquor bottles
- Perfume bottles
- Lotion and cosmetic containers
- Decorative light fixtures
- Architectural panels
- Drinkware



COLOR OPTIONS

1

MATCH AN EXISTING COLOR

Send us a colored glass and we will match it.

2

MATCH COLOR FROM REFERENCE CHART

Pick a color from current Pantone charts or other standard charts.

3

CUSTOM FORMULATIONS

Talk to our coating experts regarding custom formulations to fit your exact needs.



FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers.

Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.



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Production & R&D Site

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