PROTECH High Performance Finishes

PRE-CATALYZED EPOXY
INTERIOR WATERBORNE SATIN/EGGSHELL - (4390 Series)
INTERIOR WATERBORNE SEMI-GLOSS - (4490 Series)

DESCRIPTION
This high performance Pre-Catalyzed Epoxy is a "single component" waterborne acrylic epoxy for interior applications, which offers premium adhesion properties for multiple surfaces and excellent durability and abrasion resistance similar to two component epoxy systems. It provides superior resistance to a variety of stains and a broad range of chemicals. This product is formulated with excellent wash-ability and scrub-ability while balancing flexibility and hardness with excellent film formation down to 50°F.

INTENDED USE:
- This product is designed to be applied over many substrates including metals, fiberglass, wood, masonry, plaster and drywall.
- It is suitable for Institutional High Performance protection, USDA inspected surfaces, along with ornamental steel, maintenance areas, kitchens, dining areas, schools, hospitals or where durability and high performance properties are required.

Coating Properties

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Waterborne Acrylic Epoxy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package Size</td>
<td>Available in one gallon and five gallon pails.</td>
</tr>
<tr>
<td>Mix Ratio</td>
<td>N/A – Single Component 1K</td>
</tr>
<tr>
<td>Viscosity (Mixed) - KU</td>
<td>100 – 110 KUs</td>
</tr>
<tr>
<td>Recommended Film Thickness (per coat):</td>
<td></td>
</tr>
<tr>
<td>Wet Film</td>
<td>4.0 – 6.0 mils</td>
</tr>
<tr>
<td>Dry Film</td>
<td>1.4 – 2.0 mils</td>
</tr>
</tbody>
</table>

Test Results

| Substrate: | Steel |
| Surface Preparation: | SSPC-SP6 |
| Coating: | PROTECH PRE-CATALYZED EPOXY (Satin/Eggshell and Semi-Gloss) |
| Cure Time: | 7 Days |

Adhesion (Crosshatch; Aluminum/Steel):
Method: ASTM D3359 – Method B
Result: 4B – 5B (Excellent) Depending on Substrate
100% Adhesion for light colors; Darker colors require longer cure time for same level of adhesion

Impact Resistance:
Method: ASTM D2794 (Direct/Reverse)
Result: 100 – 120psi; 120 in-lbs.

Abrasive Scrub Resistance:
Method: ASTM D2486
Result: 800-900 Cycles
With Pumice Scrub Media and Stiff Bristle Brush

Flexibility:
Method: ASTM D522 (1/8" Mandrel)
Result: Pass (1/4" bend)

Sag Resistance:
Result: 6+ mils

Mildew & Mold Resistant: This coating contains a Biocide and Mildewcide package which inhibits the growth of fungi, mildew and mold on the surface of this coating film.

Pencil Hardness: Method: ASTM D3363
Result: H

Hardness Development:
Method: ASTM D4366
Result: 20 – 25
With "Konig Pendulum" oscillations

Block Resistance:
Result: Excellent

Chemical Resistance:
Method: ASTM 1308
Result: Excellent *

Stain Resistance:
Method: ASTM D3023
Result: Excellent *

* Panel of 27 chemicals and 13 stains evaluated

CERTIFICATIONS:
MPI Approvals – #139, 141, 151 & 153

MARKETS / END-USES:
- Storage Tank Exteriors
- Structural Steel
- Plant Maintenance
- Ornamental Steel
- Dry Goods Containers
- HV1 Maintenance
- Healthcare
- Education
- OEM
- Food Processing
- Commercial Kitchens

SUBSTRATES:
- Pre-Painted Surfaces
- Concrete / Masonry
- Ferrous Metals
- Non-Ferrous Metals
- Fiberglass
- Wood
- Gypsum Wallboard

PRODUCT WEIGHT:
10.90 lb. per gallon

GLOSS LEVEL:
Satin/Eggshell = GL3
Semi-Gloss = GL5

VOC INFORMATION:

<table>
<thead>
<tr>
<th>Bases</th>
<th>VOCs (g/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>439001 – White Base:</td>
<td>&lt;50 g/L *</td>
</tr>
<tr>
<td>439003 – Deep Base:</td>
<td>&lt;50 g/L *</td>
</tr>
<tr>
<td>439004 – Neutral Base:</td>
<td>&lt;50 g/L *</td>
</tr>
<tr>
<td>449001 – White Base:</td>
<td>&lt;50 g/L *</td>
</tr>
<tr>
<td>449003 – Deep Base:</td>
<td>&lt;50 g/L *</td>
</tr>
<tr>
<td>449004 – Neutral Base:</td>
<td>&lt;50 g/L *</td>
</tr>
</tbody>
</table>
* 45-48 across Bases without Tint colorant
Tinting with industrial waterborne colorants changes the VOC to <100 g/L

TINT COLORANT TYPE:
Water Base 896 Industrial Tinting Colorants

TINT LOAD CAPACITY:
Check with your Rodda Paint store or sales representative for tinting information
Coverage Information

<table>
<thead>
<tr>
<th>Mixed Volume Solids (May vary by Base &amp; Color)</th>
<th>34% +/- 2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical Coverage</td>
<td>272 square feet per gallon at 2 mils dry film thickness</td>
</tr>
<tr>
<td>Applied Coverage</td>
<td>200-400 Sq. ft. /gal - Actual coverage may vary depending on substrate and application method</td>
</tr>
<tr>
<td>Pot Life (at 50% RH)</td>
<td>Not applicable, this is single component product</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Minimum Shelf Life of Two Years when stored in unopened containers at 70°F</td>
</tr>
<tr>
<td>Induction Time</td>
<td>None required</td>
</tr>
<tr>
<td>Finish: Gloss/Satin/Eggshell/ Semi-Gloss</td>
<td>Satin/Eggshell: 15 – 20 @ 60°, GL 3 25-35 @ 85°  Semi-Gloss: 40 – 50 @ 60°, GL 5 60 – 70 @ 85°</td>
</tr>
</tbody>
</table>

Application Parameters

<table>
<thead>
<tr>
<th>Relative Humidity Restrictions</th>
<th>Do not exceed 85% during application or curing phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Application Temperature</td>
<td>50°F (substrate)</td>
</tr>
<tr>
<td>Maximum Application Temperature</td>
<td>110°F (substrate)</td>
</tr>
<tr>
<td>Service Temperature (Continuous):</td>
<td>180°F (substrate)</td>
</tr>
<tr>
<td>Service Temperature: (Intermittent):</td>
<td>220°F (substrate)</td>
</tr>
<tr>
<td>Application &amp; Curing Information</td>
<td>At 70°F and 50% Relative Humidity: 1 hour 4 hours 7-14 days</td>
</tr>
<tr>
<td>Dry to touch:</td>
<td></td>
</tr>
<tr>
<td>Dry to recoat:</td>
<td></td>
</tr>
<tr>
<td>Dry hard:</td>
<td>Note: Film thickness will affect dry/cure times</td>
</tr>
</tbody>
</table>

Technical Notes

- This coating is Not Formulated for Immersion Service or a Continuous High Moisture Environment
- Do not apply when the relative humidity is above 85% or when a surface will be subjected to temperature below 50°F.
- Ensure enclosed areas are adequately ventilated during curing phase to prevent excessive humidity build up which can affect sag resistance or cure
- Superior performance will result from priming with a rust inhibitive primer on ferrous metal surfaces
- This coating is Not Recommended For Floors

COATING RECOMMENDATION:
One or two coats recommended over properly prepared surfaces

MIXING:
Mix thoroughly and slowly to not introduce air into product

THINNING/REDUCERS:
- Can be thinned with up to 5% clean/potable tap water
- In hot environments it may be necessary to add 913 Latex Reducer Additive to the paint to improve workability – 4 to 8 fluid ounces per gallon should be considered
- Use least amount of additive to provide desired workability

Note: Excessive reduction with water can cause flash rusting on steel and reduce sag resistance during application

APPLICATOR INFORMATION:

BRUSH:
Use a nylon/polyester brush

ROLLER COVER:
Use a 1/4” – 1/2” nap synthetic cover depending on the degree of texture of the surface to be painted

AIRLESS SPRAY:
Pressure 2,000 psi; Tip: .013 to .019

EQUIPMENT CLEANING:
- Clean application tools immediately after use with warm soapy water
- Partially dry or dry films may require solvent cleaning with a Synthetic Reducer
Substrates and Surface Preparation

**Surface preparation is important** - All surfaces must be of uniform porosity, clean, dry and free of mildew, grease, chalk, soap film, sanding dust or other contaminants

- Remove all loose or peeling material from previously painted surfaces
- Wash with a mild detergent and water solution. Rinse thoroughly, allow to dry
- On glossy or smooth surfaces, scuff sand using appropriate sandpaper to provide a uniformly dulled appearance
- Remove all sanding dust prior to painting
- Do not apply at ambient or substrate temperatures below 50°F (10°C)

**Ferrous Metal:**
- Clean metal of any contaminants by pressure washing or solvent wiping in accordance with SSPC-SP-1. At a minimum, power tool clean the metal per SSPC-SP-3 being careful not to polish the metal.
  - Wire Wheeling should be avoided to prevent polishing the metal
- The properly prepared metal surface should have appropriate sharp and angular profile for the paint to mechanically bond.
- Superior performance is always achieved with an abrasive blast to a minimum of SSPC SP-6 Commercial Blast cleanliness.

**Non-Ferrous Metal & Fiberglass:**
- Clean the metal/fiberglass surface of any contaminants such as oil, grease, mold release or dirt.
- Apply a bonding primer suitable for the metal being painted if mechanical surface preparation is not possible.
- At a minimum, scuff sand the metal or fiberglass surface with appropriate sandpaper to provide a uniformly dull surface with adequate surface profile and remove sanding dust prior to painting.

**Surface Prep for Unpainted Concrete:**
- Remove all surface contamination, form release agents, moisture curing membranes, mildew, efflorescence, etc. by washing with an appropriate cleaner. Then rinse and allow to dry.
- Do not apply to damp or wet surfaces.
- Concrete or mortar needs to be cured approximately 30 days at 70°F.
- For porous CMU substrates use appropriate block filler.
  - Do not apply block filler to smooth surfaces as peeling may occur.

**New or Bare Wood (Interior):**
- Sand with appropriate sandpaper to remove mill glaze and expose fresh wood cells prior to applying appropriate wood sealer or primer
- Remove sanding dust prior to application of sealer or primer.
- Seal with correct primer for wood substrates.

**Pre-Painted Surfaces:**
- Wash with a mild detergent and water solution. Rinse thoroughly, allow to dry thoroughly.
- All glossy or hard smooth surfaces should be scuff sanded using appropriate sandpaper to provide a uniformly dull appearance on all substrates.
- Remove all sanding dust prior to painting.

**WARNING!** If you scrape, sand or remove old paint from any surface you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN.

PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information on surfaces that may contain lead paint, contact the U.S. EPA / Lead Information Hotline at 1.800.424.LEAD (5323).
Safety Precaution

Safety Precautions: For detailed information please refer to this product's safety data sheet (SDS) – A copy of which can be found on our website, www.roddapaint.com under Products/Product Data Sheets and SDS

Updates/Amendments

Please visit www.roddapaint.com for the most recent versions of Technical Data Sheets and Safety Data Sheets

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