

Commercial · Industrial · Residential

PROTECH High Performance Finishes

PRE-CATALYZED EPOXY

INTERIOR WATERBORNE SATIN/EGGSHELL (4390 Series)
INTERIOR WATERBORNE SEMIGLOSS (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 flash rust resistance in addition to 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.
- NOTE: Applications over Ferrous Metals require a rust-inhibitive primer. NOT for use on Cabinets!

COATING PROPERTIES

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

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: 48 – 58 (Excellent) Depending of

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:

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

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.

CERTIFICATIONS:

MPI Approvals – #139, 141, 151 and 153

MARKETS / END-USES:

- Storage Tank Exteriors
- Structural Steel
- •Plant Maintenance
- Ornamental Steel
- Dry Goods Containers
- •HVI Maintenance
- Healthcare
- Education
- OEM
- •Food Processing
- Commercial Kitchens

SUBSTRATES:

- Pre-Painted Surfaces
- •Concrete / Masonry
- Ferrous Metals
- •Non-Ferrous Metals
- Fiberglass
- •Wood Not for use on Cabinets
- •Gypsum Wallboard

PRODUCT WEIGHT:

10.90 lb. per gallon

GLOSS LEVEL:

Satin/Eggshell = GL3 Semi-Gloss = GL5

VOC INFORMATION:

Bases VOCs (g/L)

SATIN/EGGSHELL < 50 g/L*

439001 – White Base 439003 – Deep Base 439004 – Neutral Base

SEMIGLOSS < 50 g/L*

449001 – White Base 449003 – Deep Base 449004 – Neutral Base

* Without Tint colorant.

Tinting with industrial waterborne colorants will change the VOC

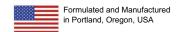
TINT COLORANT TYPE:

Water Base 896 Industrial Tinting Colorants

TINT LOAD CAPACITY:

Check with your Rodda Paint Store or Sales Representative for tinting information







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COVERAGE INFORMATION

Mixed Volume Solids (May vary by Base & Color)	34% +/- 2%	
	272 square feet per gallon a	at 2 mils dry film thickness
Theoretical Coverage	Note : Actual coverage may application methods, and sp	vary depending on substrate, ecified dry film thickness
Applied Covers	200-400 Sq. ft. /gal - Actual coverage will vary depending on substrate and application method	
Applied Coverage	Please contact your Sales F recommendations	Representative for specific project
Pot Life (at 50% RH)	Not applicable, this is single component product	
Shelf Life & Storage	<u>Maximum</u> Shelf Life of 3 y containers.	years when stored in unopened
Shell Elle & Storage	Store indoors at 40-90F. Keep from freezing! Subject to reinspection.	
Induction Time	None required	
Finish:	Satin/Eggshell	Semi-Gloss
Gloss	15 – 20 @ 60°, GL 3	40 – 50 @ 60°, GL 5
Sheen	25-35 @ 85°	60 – 70 @ 85°

APPLICATION PARAMETERS

APPLICATION PARAME		
Relative Humidity Restrictions	Do not exceed 85% during application or curing phase	
Minimum Application Temperature	50°F (substrate)	
Maximum Application Temperature	110°F (substrate)	
Service Temperature (Continuous):	180°F (substrate)	
Service Temperature: (Intermittent):	220°F (substrate)	
Application & Curing Information	At 70°F and 50% Relative Humidity: 1 hour	
Dry to touch :		
Dry to recoat :	4 hours	
Dry hard :	7.44.1	
,	Note: Film thickness will affect dry/cure times	
	• 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. 	
Technical Notes	 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

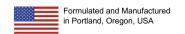
AIRLESS SPRAY:

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







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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.
- <u>NOTE</u>: Superior performance will result from priming with a rust-inhibitive primer on ferrous metal surfaces.

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 dulled surface with adequate surface profile and remove sanding dust prior to painting.

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 70F.
- · 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).

PRIMER RECOMMENDATION:

Steel (ferrous metal):

EcoLogic 70323 Primer **required** over Ferrous Metals

Galvanized Metal:

EcoLogic 70323 Primer

<u>Aluminum (non-ferrous</u> metal):

Cloverdale ClovaPrep 83020 Epoxy or 83060 Vinyl Wash Primer

Fiberglass:

First Coat Bonding Primer or other Approved Suitable Bonding Primers

<u>Masonry (other than porous</u> block):

First Coat Bonding Primer or pHLEX-TITE Elastomeric Primer

Porous Masonry Block:

Fill voids with 501901 Sprayable Block Filler

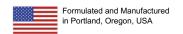
Interior Dry New Wood:

Unique II Undercoater or First Coat Bonding Primer

Interior Dry Wall:

Scotseal Primer







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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

LIMITATION OF LIABILITY

To the best of our knowledge, the technical data contained herein are true and accurate at the time of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. All technical advice, recommendations and services regarding this product are rendered by the Seller gratis.

They are based on technical data which the Seller believes to be reliable and are intended for use by persons having skill and know-how, at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from this product use by Buyer whether as recommended herein or otherwise. Such recommendations, technical advice or services are not to be taken as a license to operate under or suggest infringement of any patent.

WARRANTY

Rodda Paint Co. manufactures quality products and warrants its product to be free from defects in materials and workmanship. In the event that this product is defective or in any way unsuitable for the application for which it was sold, Rodda Paint Co. will REPLACE ANY PRODUCT PROVED TO BE DEFECTIVE free of charge OR REFUND THE ORIGINAL PURCHASE PRICE OF THE QUANTITY PROVED. This warranty is the only guarantee of quality made in respect of this product by Rodda Paint Co. By purchasing this product the customer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the customer or implied by any applicable law.

TO BE DEFECTIVE – Requests for refund or replacement of product must be made in writing within one year from the original date of purchase. This Warranty does not apply to defects due, directly or indirectly, to misuse, abuse, negligent application, or acts of God.

Rodda Paint. WILL NOT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCT, INCLUDING DOWNTIME OR LOSS OF USE OF PRODUCT.

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