



WATER REDUCIBLE EPOXY ESTER PRIMER V125

Features

- Water thinned industrial primer with excellent wetting properties
- Formulated with corrosion inhibiting pigments for rust protection
- Application and performance characteristics of a conventional alkyd primer and solvent clean-up normally associated with these products

Recommended For

Carbon Steel, Iron, Aluminum, Galvanized. General metal Finishing/Fabrication market, industrial maintenance and refurbishment market storage, tank refinishing and refurbishment market, and other markets requiring water thinned products with the performance attributes of conventional alkyds.

General Description

Water Reducible Epoxy Ester Primer is a water-thinned industrial primer offering the application and performance characteristics of a conventional alkyd primer and solvent clean-up normally associated with these products.

Limitations

- Do not apply at ambient or surface temperatures below 50 °F (10 °C). Relative humidity should be below 90%.
- Do not apply if within 5 degrees of the dew point or if rain is expected within 12 hours of application.
- Not intended for use in immersion Service

Product Information

Colors — Standard:

Red (20), Gray (70)

— Tint Bases:

N/A

— Special Colors:

Contact your retailer.

Certification & Qualifications:

The products supported by this data sheet contain a maximum of 340 grams per liter VOC / VOS (2.84 lbs./gal.) excluding water and exempt solvents.

VOC REGION	COMPLIANT
FEDERAL	YES
OTC	YES
OTCII	NO
CARB	NO
CARB07	NO
UTAH	NO
AZMC	YES
SCAQMD	NO

Technical Assistance

Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit www.benjaminmoore.com

Technical Data[◇]

	Red
Generic Type	Epoxy Ester
Pigment Type	Titanium Dioxide
Volume Solids	31% ± 1.0%
Coverage per Gallon at Recommended Film Thickness	250 – 300 Sq. Ft.
Recommended Film Thickness	– Wet 5.3 – 6.4 mils – Dry 1.6 – 2.0 mils
Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.	
Dry Time @ 77 °F (25 °C) @ 50% RH	– To Touch 2 Hours – To Recoat 4 Hours – Full Cure 72 Hours
*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.	
Dries By	Oxidation
Dry Heat Resistance	300 °F
Viscosity @ 77 °F	75 – 85 KU
Flash Point	200 °F or greater (TT-P-141, Method 4293)
Gloss/Sheen	Flat (2 - 10 @ 60°)
Surface Temperature at application	– Min. 50 °F – Max. 90 °F
Surface must be dry and at least 5° above the dew point	
Thin With	Water
Clean Up Thinner	Water
Weight Per Gallon	10.4 lbs.
Storage Temperature	– Min. 40 °F – Max. 90 °F

Volatile Organic Compounds (VOC)

337 Grams / Liter 2.81 Lbs. / Gallon

[◇] Reported values are for Red. Contact retailer for values of other bases or colors.

Water Reducible Epoxy Ester Primer V125

Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils and accumulated salts must be removed prior to employing specific surface preparation methods. SSPC-SP1 Solvent Cleaning will best accomplish this task. All rust and mill scale must be removed prior to application of this product. This is best accomplished by abrasive blasting. A minimum of SSPC-SP6 Commercial Blast is recommended for severe environmental exposures. Small areas may be cleaned in accordance with SSPC-SP2 Hand Tool Cleaning or SSPC-SP3 Power Tool Cleaning or SSPC-SP13 Power Tool Cleaning to Bare Metal. Galvanized steel should be solvent washed as outlined above and primed. Existing coatings should be cleaned as stated above and then checked for compatibility by application of a test patch.

For use on substrates other than carbon steel, iron or galvanized steel, please use the proper primer as specified by Corotech Technical Service.

WARNING! If you scrape, sand, or remove old paint, 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. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this task. Application in normal temperatures (45 °F to 90 °F) or normal humidity levels (30 to 95%) should not require thinning, however small amounts of water may be used if necessary.

Airless Spray (Preferred Method): Tip range between 13 and 17 thousandths. Total fluid output pressure at tip should not be less than 2100 psi.

Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner.

Brush: Natural Bristle for small areas.

Roller: Industrial Cover with Phenolic core for small areas.

Note on Spread Rate: Actual spread rate will vary based upon numerous factors, including texture of the substrate, application method, waste, surface porosity and thinning. The Theoretical Spread Rate listed on this document has not taken into account these factors and is only based upon the volume solids of this product and the recommended wet film thickness when applied to a smooth substrate.

Storage: 18 months at 77 °F in original unopened container. Prolonged storage at higher temperatures can shorten the shelf life. Store in dry, shaded area, away from heat and ignition sources. Protect from frost and freezing.

Tintability: Corotech® V125 Water Reducible Epoxy Ester Primer is not tintable. Custom colors are available in minimum batch quantities.

Resin Type: Modified Epoxy Ester

TEST DATA	
Salt Fog Resistance (ASTM B117) 500 Hours	Rust Breakthrough – 10 Rating Rust Area – 0.01%
Dry Heat Resistance	300 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	5B
Flexibility (ASTM D1737)	Pass 1/4" Mandrel

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Good
Alkalis	Good
Solvents	Good
Fuel	Good
Acidic Salt Solutions	Good
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Good

SYSTEMS RECOMMENDATIONS COMPATIBLE FINISHES
Finishes: 892 Line, 180 Line, 182 Line, 80 Line, 90 Line, 31 Line, M13 Line, V200 Line, V201 Line, V300 Line, V330 Line, V331 Line
For coatings other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Industrial Coatings technical service.

Environmental Health & Safety Information

Danger

Causes skin irritation

Causes serious eye irritation

May cause cancer

Suspected of damaging fertility or the unborn child

May cause damage to organs

Causes damage to organs through prolonged or repeated exposure

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Do not breathe dust/fume/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Response: If exposed or concerned get medical attention. If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention. If on skin wash with plenty of soap and water. If skin irritation occurs get medical attention. Take off contaminated clothing and wash before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.



WARNING Cancer and Reproductive Harm—

www.P65warnings.ca.gov

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN
KEEP FROM FREEZING
FOR PROFESSIONAL USE ONLY**

**Refer to Safety Data Sheet for
additional health and safety information.**