Benjamin Moore

COROTECH®
HIGH PERFORMANCE

POLYAMIDE EPOXY PRIMER V150

Features

- High-solids content
- Outstanding protection against corrosion
- Engineered for use in general metal finishing and fabrication
- Also appropriate for chemical processing facilities and transportation infrastructure finishing
- Suitable as a high-performance tie coat; especially over existing epoxies

General Description

Polyamide Epoxy Primer is formulated for use on ferrous and non-ferrous metals in industrial and commercial applications. This epoxy primer is an excellent choice for use as a rust-inhibitive base coat when used as part of a high-performance coating system. With proper top coating, it demonstrates excellent resistance to moisture and chemicals, including solvents, acids, and alkalis. Polyamide Epoxy Primer is also suitable for use on concrete substrates in secondary containment and immersion service applications. **This is a two-component product that requires 1 part of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.**

Recommended For

Properly prepared Steel, Iron, Galvanized, Aluminum, and other non-ferrous metals. Corotech® V150 Polyamide Epoxy is a multi-use epoxy primer for metal in the industrial maintenance market, food and beverage processing market, general metal finishing and fabrication market, chemical processing market, as well as transportation infrastructure finishing or other areas requiring a two-component, corrosion resistant primer for metal.

Limitations

- Do not apply at ambient or surface temperatures below 10 °C (50 °F).
- Do not paint if surface temperature is within 5 degrees of the dew point or if rain is expected within 12 hours.

Product Information

Colours — Standard:

Red (20), Gray (70)

— Tint Bases:

Do not tint.

— Special Colours:

Contact your retailer.

Certifications & Qualifications:

The products supported by this data sheet contain a maximum of 340 grams per litre VOC / VOS excluding water & exempt solvents.

This product is compliant as an Industrial Maintenance Coating.

Meets performance requirements of MIL-P-53022 & MIL-P-23377.

Meets SSPC Paint 22 (Primer).

This product has been approved by CFIA (Canadian Food Inspection Agency) for use in Food Processing Facilities.

Customer Information Centre:

1-800-361-5898, info@benjaminmoore.ca, www.benjaminmoore.ca

Technical Data◊		Red
Generic Type		Polyamide Epoxy
Pigment Type		Titanium Dioxide
Volume Solids (mixed as recommended)		62 ± 1.0%
Coverage per 3.79 L at Recommended Film Thickness		30 – 33 sq. m. (350 - 400 sq. ft.)
Recommended Film Thickness	– Wet	4.0 – 4.5 mils
	– Dry	2.4 – 2.8 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 @ 25 °C (77 °F) @ 50% RH	– To Touch	2 Hours
	– To Recoat	8 Hours / Max 4 weeks
	– To Cure	3 – 4 Days
*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		Chemical Cure
Dry Heat Resistance		275° F
Viscosity @ 77 °F (mixed as recommended)		85 – 95 KU
Flash Point		Mixed: 26.7 °C (80 °F). (TT-P-141, Method 4293)
Gloss/Sheen		Low Sheen (5 – 10 @ 60°)
Surface Temperature at application	– Min.	10 °C (50 °F)
	– Max.	32 °C (90 °F)
Surface must be dry and at least 5° above the dew point		
Thin With		Do Not Thin
Clean Up Thinner		Corotech® V704 Epoxy Reducer
Mixed Ratio (by volume)		1 : 1
Induction time @ 25 °C (77 °F)		30 Minutes
Pot Life @ 25° C (77 °F)		4 Hours
Weight Per Gallon (mixed as recommended)		5.9 kg (13.1 lbs)
Storage Temperature	– Min.	4.4 °C (40 °F)
	– Max.	32 °C (90 °F)

Volatile Organic Compounds (VOC)
322 Grams / Litre*
* Catalyzed

◊ Reported values are for Red. Contact retailer for values of other bases or colors.

Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, form release agents, curing compounds, loose and flaking paint and other surface contaminants.

NEW SURFACES: Concrete and Masonry: All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturer's directions and safety instructions. Rinse thoroughly and allow to dry. Prime concrete with one coat of V155 100% Solid Epoxy Pre-Primer.

Steel and Ferrous Metals: All direct to metal coatings provide maximum performance over near white metal blasted surfaces (SSPC-SP 10). There are however, situations and cost considerations that may prevent this type of surface preparation from being done. Corotech® Industrial Coatings have been designed to provide protection over less than ideal surfaces. The recommended standard is a commercial blast (SSPC-SP 6). The steel profile after the blast should be 1-2 mils and be jagged in nature. Surfaces must be free of grit dust. The coating should be applied as soon as possible after the blast in order to prevent flash rusting or surface contamination. Hand tool cleaning (SSPC-SP 2) or power tool cleaning (SSPC-SP 3) can be used if blasting is not possible. In areas where adequate surface preparation is not possible the use of V155 100% Solid Epoxy Pre-Primer is recommended. In highly corrosive areas where additional rust inhibitive qualities are required, prime with one coat of V170 Organic Zinc Rich Primer prior to applying epoxy coatings.

Galvanized and Non-Ferrous Metals: Solvent clean all surfaces. Self-Priming or apply one coat of Corotech® V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer.

Previously Painted Surfaces: Can be applied over most old industrial finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. V155 100% Solid Epoxy Pre-Primer may be used as a barrier coat over all existing coatings.

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 logging onto Health Canada @ http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Application

Mixing Instructions:

This is a two component kit and is pre-proportioned for error free mixing. DO NOT vary from these instructions. Mix "A" & "B" separately

1. Carefully combine the entire contents of V150-90 activator with the V150-Part A component; scrape the sides of the pail of Part B to make sure all liquid has been added.
2. Using a jiffy mixer at low speed, blend this mixture for three to five minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of pail during the mixing process.
3. Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
4. Allow to induct for 30 minutes.

Do not thin this product – it is ready to use once both components are thoroughly mixed.

It is extremely important to remember that Epoxy Coatings have a limited pot life. Therefore, it is wise to make sure sufficient manpower and correct application tools are in order prior to starting the mixing sequence.

Application:

Airless Spray (Preferred Method): Tip range between .017 and .021. 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.

Brush: Natural Bristle only. / **Roller:** Industrial Cover with Phenolic core. 6.35 mm – 12.7 mm (¼" – ½") nap.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. No reduction is necessary. This product will not cure at surface temperatures below 10 °C (50 °F). Do not apply if material, substrate or ambient temperature is below 10 °C (50 °F). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

Notes: All high gloss surfaces can be slippery. Where non-skid properties are required a non-skid additive should be used.

All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. All epoxies tend to yellow. Where colour and gloss retention is important top-coating will be necessary. Will stain with prolonged exposure to some solvents and chemicals or in kennels if exposed to animal waste. This staining will not affect the durability or protective qualities of the coating.

TEST DATA	
Sag Resistance (ASTM D4400)	8 mils +
Flexibility (ASTM D1737)	Pass 6.4 mm (1/4") Mandrel
Steam Resistant	Yes
Dry Heat Resistance	135 °C (275° F)
Wet Heat Resistance	65.6 °C (150 °F)
Adhesion (ASTM D3359)	Pass 5B
Humidity (ASTM D4585) (1 Coat w/2 cts. V400 Topcoat, 6 mils, 1000 Hours)	Face Corrosion: None Face Blistering: None Rating: 10, Rust: 0.00%
Salt Spray (ASTM B117) (1 Coat w/2 cts. V400 Topcoat, 6 mils, 600 Hours)	Face Corrosion: None Face Blistering: None Rating: 10, Rust: 0.00%
CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	See Finish Coat Data Sheets for Resistance Information.
Salt Water	
Acids	
Alkalis	
Solvents	
Fuel	
Acidic Salt Solutions	
Alkaline Salt Solutions	
Neutral Salt Solutions	

SYSTEMS RECOMMENDATIONS
COMPATIBLE FINISHES
V220 Line, V300 Line, V330 Line, V400 Line, V410, V440 Line, V500 Line, V510 Line, V540 Line, and Other Alkyds, Acrylics and Moisture Cured Urethanes
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.

Clean Up

Clean up with Corotech® V704 Epoxy Reducer.

Environmental Health & Safety Information

DANGER!

Causes skin irritation

Causes serious eye irritation

May cause cancer

May cause damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapor

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/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/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 advice/attention. If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

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

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

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
FOR PROFESSIONAL USE ONLY

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