



FAST DRY POLYAMIDE EPOXY V410

Features

- Fast cure and low temp applications
- Excellent for all metal and masonry surfaces
- Excellent acid and chemical resistance
- Hard, scratch and impact resistant coating
- Suitable for use in USDA inspected facilities

Recommended For

Properly prepared and/or Primed Steel, Iron, Concrete, and Non-Ferrous Metals. Corotech® V410 Fast Dry Polyamide Epoxy is designed for use in standard and low temperature applications in the food and beverage processing industry, industrial maintenance market, industrial flooring, fabrication market, chemical processing market, and transportation market. This product may be used interior or exterior, however if left without top-coating in exterior applications, the coating may prematurely chalk from UV exposure.

General Description

Fast-Dry Polyamide Epoxy is a unique satin sheen epoxy that can cure in temperatures as low as 35° F in approximately 5 days. Fast-Dry Polyamide Epoxy may be used as a high durability floor finish and is suitable for a variety of other substrates. **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.**

Limitations

- Do not apply at ambient or surface temperatures below 35° F (1.6 °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.

Product Information

Colors — Standard:

Clear (00), Silver Gray (70), Battleship Gray (75), Black (80)

— Tint Bases:

Tintable White (86), Deep Base (87), Clear Base (88)

Tint With Industrial Colorants Only

Tint Part "A" only. Check color accuracy by mixing equal portions of the "A" & "B" components and allow to dry.

— Special Colors:

Contact your retailer.

Certification & Qualifications:

The product supported by this data sheet contains a maximum of 250 grams per liter VOC / VOS (2.09 lbs/gal.) excluding water and exempt solvents.

Suitable for use in USDA Inspected Facilities

VOC REGION	COMPLIANT
FEDERAL	YES
OTC	YES
OTCII	YES
CARB	YES
CARB07	YES
UTAH	YES
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[◇]

Tintable White	
Generic Type	Polyamide and Polyamine Cured Epoxy
Pigment Type	Titanium Dioxide
Volume Solids (mixed as recommended)	76 ± 2.0%
Coverage per Gallon at	
Recommended Film Thickness	350 – 500 Sq. Ft.
Recommended	– Wet 3.2 – 4.6 mils
Film Thickness	– Dry 2.3 – 3.3 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 3 – 4 Hours
	– To Recoat 8 Hours
	– Full Cure 3 – 5 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	200 °F
Viscosity @ 77 °F (mixed as recommended)	100 – 105 KU
Flash Point	Mixed: 80 °F (TT-P-141, Method 4293)
Gloss/Sheen	Satin (35 – 40 @ 60°)
Surface Temperature at application	– Min. 35 °F (1.6 °C) – Max. 100 °F (37.7 °C)
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 @ 77 °F (25 °C)	30 Minutes
Pot Life @ 77 °F (25 °C)	3 Hours
Weight Per Gallon (mixed as recommended)	12.8 lbs
Storage Temperature	– Min. 40 °F – Max. 90 °F

Volatile Organic Compounds (VOC)
238.5 Grams / Liter* 1.99 LBS / Gallon*
* Catalyzed

[◇] Reported values are for Tintable White. Contact your retailer for values of other bases or colors.

Fast Dry Polyamide Epoxy V410

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. Clean using Corotech V600 Oil & Grease Emulsifier.

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, use Corotech® V620 Concrete Etch and follow all directions and safety instructions. Rinse thoroughly and allow to dry. Prime concrete with one coat of V155 100% Solids Epoxy Pre-Primer or V156 Moisture Tolerant Epoxy.

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% Solids 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 and an acrylic barrier coat prior to applying epoxy coatings.

Galvanized and Non-Ferrous Metals: Clean all surfaces using Corotech® V600 Oil & Grease Emulsifier or lacquer thinner. Apply one coat of Corotech® V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer.

Previously Painted Surfaces: Can be applied over most old finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. V155 100% Solids 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 contacting the National Lead Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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 before combining.

1. Carefully combine the entire contents of V410-90 activator into the V410-01 Part A component; scrape the sides of the can 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. Estimated pot life is: 8 hrs. @ 35 °F / 5 hrs. @ 55 °F / 3 hrs. @ 77 °F / 1 hr. @ 90 °F

Application:

Airless Spray (Preferred Method): Tip range between .019 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. 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. Do not apply if material, substrate or ambient temperature is below 35 °F (1.6 °C). Relative humidity should be below 90%. Do not apply if within 5° of dew point or if rain is expected within 12 hours of application

Additional Notes: Where non-skid characteristics are desired, hand broadcast an appropriate anti-slip aggregate into the wet film then back-roll to encapsulate. Benjamin Moore's Corotech Anti-Slip Aggregate V630 works well for non-clear coats. All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. All epoxies tend to yellow. Where color and gloss retention is important top-coating will be necessary. This product 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	
Flexibility (ASTM D1737)	Pass 1/4" Mandrel
Sag (ASTM D4400)	12 mils
Dry Heat Resistance	200 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Pass 5B
Accelerated Weathering (ASTM G53)	500 hours, no change
Abrasion Resistance (ASTM D4060) CS-17 Wheel, 1000g load	75 mg loss after 1000 cycles
Humidity (ASTM D4585) (2 Coats over V150 – 1000 Hours)	Face Corrosion: None Face Blistering: None Rating: 10, Rust: 0.00%
Salt Spray (ASTM B117) (2 Coats over V150 - 1000 Hours)	Face Corrosion: None Face Blistering: None Rating: 9, Rust: 0.04%

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

SYSTEMS RECOMMENDATIONS	
PRIMERS	
Ferrous Metal (Blasted)	V110 Line, V150 Line, V155-00 or V160 Line
Ferrous Metal (Marginally Prepared)	V155-00 or V160 Line
Non-Ferrous Metal	V110 Line or V175-00
Concrete	Use Direct or use V110 Line, V114-01, or V155-00, V160 Line, V163-01, or V400-00 Clear
Aged coatings	Use Direct (Check Compatibility) or use V110 Line as a barrier Coat
COMPATIBLE INTERMEDIATES	
V160 Line, V163-01	
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

Fast Dry Polyamide Epoxy V410

Clean Up

Clean up with Corotech® V704 Epoxy Reducer.

Environmental Health & Safety Information

DANGER!

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

May cause respiratory irritation

Causes 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. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces, 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. Keep cool. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If exposed call a POISON CENTER or physician. 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 skin irritation or rash occurs get medical attention. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If experiencing respiratory symptoms: Call a POISON CENTER or physician. If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. If swallowed immediately call a POISON CENTER or 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 container tightly closed.

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.



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
FOR PROFESSIONAL USE ONLY**

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