



FAST DRY POLYAMIDE EPOXY V410

Features

- Fast cure and low temp applications
- Excellent for all metal and masonry surfaces
- Hard, scratch and impact resistant coating
- Excellent acid and chemical resistance

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 1.6 °C (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 1.6 °C (35 °F). 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

Colours — Standard:	Technical Data◇	White
White	Generic Type	Polyamide and Polyamine Cured Epoxy
	Pigment Type	Titanium Dioxide
— Tint Bases:	Volume Solids (mixed as recommended)	72 ± 2.0%
N/A	Coverage per 3.79 L at	32.5-46.5 sq. m.
Can be tinted with a maximum of 60 ml Type 844 Industrial Colorant.	Recommended Film Thickness	(350 – 500 sq. ft.)
— Special Colours:	Recommended Film Thickness	– Wet 3.2 – 4.6 mils
Contact your retailer.	Film Thickness	– Dry 2.3 – 3.3 mils
Certification:	Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure colour uniformity and minimize the disposal of excess paint.	
The product supported by this data sheet contains a maximum of 250 grams per litre VOC / VOS excluding water & exempt solvents.	Dry Time @ 25 °C (77 °F)	– To Touch 6 Hours – To Recoat 8 Hours – Max: 21 Days – Full Cure 3 – 5 Days
This product is compliant as an Industrial Maintenance Coating.	*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.	
Technical Assistance:	Dries By	Chemical Cure
Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-877-711-6830, or visit www.benjaminmoore.ca	Dry Heat Resistance	93.2 °C (200 °F)
	Viscosity @ 25 °C (77 °F) (mixed as recommended)	100 – 105 KU
	Flash Point	Mixed: 26.7 °C (80 °F) (TT-P-141, Method 4293)
	Gloss/Sheen	Satin (35 – 40 @ 60°)
	Surface Temperature at application	– Min. 1.6 °C (35 °F) – Max. 32.2 °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)	3 Hours
	Weight Per 3.79 L (mixed as recommended)	5.7 kg (12.5 lbs)
	Storage Temperature	– Min. 4.4 °C (40 °F) – Max. 32.2 °C (90 °F)
	Volatile Organic Compounds (VOC) 241 Grams / Litre* * Catalyzed	

◇ Reported values are for White. Contact retailer for values of other bases or colours.

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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 logging onto Health Canada @ http://www.hc-sc.gc.ca/ewh-sem/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 before combining.

- 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.
- 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.
- Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
- 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. @ 1.7°C (35°F) / 5 hrs. @ 12.8°C (55°F) / 3 hrs. @ 25°C (77°F) / 1 hr. @ 32.2°C (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. 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. Do not apply if material, substrate or ambient temperature is below 1.6°C (35°F). 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: All epoxy 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. 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 6.4 mm (1/4") Mandrel
Sag (ASTM D4400)	12 mils
Dry Heat Resistance	93.2 °C (200 °F)
Wet Heat Resistance	65.6 °C (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 or V155-00, V160 Line, or V400-00 Clear or a good quality acrylic or epoxy block filler
Aged coatings	Use Direct (Check Compatibility) or use V110 Line as a barrier Coat
COMPATIBLE INTERMEDIATES	
V160 Line	
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 an allergic skin reaction

Suspected of causing cancer

May damage fertility or the unborn child

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapour

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. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/mist/vapours/spray. Do not eat, drink or smoke when using this product. 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. 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 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 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, a small amount of clean sand may be added. Stir often during application.

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.**