Benjamin Moore



Corotech® V400 Polyamide Epoxy is a multi-use epoxy designed for coating

items including tanks, machinery, floors, structural members, walls and

other industrial and commercial substrates requiring a durable and resistant

finish. The base component dictates the color of the mixed kit, while the

converter determines the gloss and film build level.

Features

- Highly cross-linked film for toughness and durability
- Resists many chemicals and solvents

Recommended For

- Suitable For Use In USDA Inspected Facilities
- Suitable for immersion
- Medium build epoxy

POLYAMIDE EPOXY COATING GLOSS/SEMI-GLOSS V400

General Description

Polyamide Epoxy Coating is a multi-use epoxy designed for tanks, machinery, floors, structural members, walls, boats, and other industrial and commercial substrates requiring a durable coating in severe environments. Floors: moderate- to heavy-duty performance in commercial/industrial environments exposed to heavy foot traffic and occasional traffic of lightweight rubber-tired vehicles, intermittent spillage of mild to heavier chemicals, occasional steam and chemical cleaning. Metal: excellent for use on ferrous metals, non-ferrous metals and galvanized metal. 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

- This product will not cure at surface temperatures below 45 °F (7.2 °C).
- Do not paint if surface temperature is within 5 degrees of the dew point or if rain is expected within 12 hours.
- This product will amber and chalk if exposed to sunlight.

	9	Product Information	ation			
Colors — Standard:			Technical Data◊		Tintable White Gloss	
Clear (00), Safety Yellow (10), Safety Red (20), Silver Gray (70),			Generic Type		Polyamide Epoxy	
Battleship Gray (75), Black (80), Tintable White (86)			Pigment Type		Titanium Dioxide	
			Volume Solids		62 ± 1% (Gloss/Semi-Gloss)	
			(mixed as recommended)		66 ± 1% (High Build)	
Tintable White (86), Deep Base (87), Clear Base (88) Tint With Industrial Colorants Only			Coverage per Gallon at Recommended Film Thickness		Gloss/Semi-Gloss 400 - 500 Sq. Ft.	
			Recommended Film	Ihickness	High Bullu 200 – 250 Sq. Ft.	
			Recommended Film Thickness	– Wet	Gloss/Semi-Gloss 3.2 – 4.0 mils	
Tint Part "A" only. Check color accuracy by mixing equal portions of the "A" & "B" components and allow to dry. Gloss (90), Semi-Gloss (91), High Build (92)				– Dry	High Build 6.4 - 8.0 mils	
					Gloss/Semi-Gloss 2.0 – 2.5 mils	
					High Build 4.2 - 5.3 mils	
			Depending on surface texture and porosity.			
			-	- To Touch		
— Special Colors:			Dry Time @ 77 °F (25 °C) @ 50% RH	- To Recoat		lours / Max: 3 Days
Contact your retailer.				- Foot Traffi	IC	24 - 48 hours
			– Full Cure		- , -	
Certification & Qualifications:			SERVICE TIME: Li Heavy Industrial L			
The products supported by this data sheet			*Recoat after 72 ho			
contain a maximum of 340 grams per liter			coat adhesion. High humidity and cool temperatures will result in			
VOC / VOS (2.83 lbs/gal.) excluding water &	longer dry, recoat and cure times.					
exempt solvents.			Dries By			Chemical Cure
Suitable for Use in USDA Inspected Facilities			Dry Heat Resistance 300 °I			300 °F
Any "A" with -90 meets performance specs of MIL-C-22750 & MIL-P-24441	VOC REGION	COMPLIANT	Viscosity @ 77°F			Gloss 75 – 80 KU
	FEDERAL	YES	(mixed as recommended)		Semi-Gloss 80 – 85 KU High Build 85 - 90 KU	
Any "A" with -91 meets performance specs of MIL-C-4556 & MIL-C-22750 (Semi-Gloss)	OTC	YES				
Master Painters Institute MPI # 177	отсіі	NO	Flash Point			
(Semi-Gloss Catalyst)	CARB	NO	Gloss/Sheen		Gloss (85+ @ 60°)	
Master Painters Institute MPI # 82	CARB07	NO			Semi-Gloss (40 - 50 @ 60°) High Build (65 – 75 @ 60°)	
when used with an anti-slip additive	UTAH	NO	Surface Temperature	<u> </u>	– Min.	45 °F
Master Painters Institute MPI # 98	-		at application		– Max.	100 °F
(High Build Catalyst)	AZMC	YES	Thin With		max.	Do Not Thin
Master Painters Institute MPI # 108	SCAQMD	NO	Clean Up Thinner		Corotech [®] V7	704 Epoxy Reducer
(Semi-Gloss Catalyst)			Mixed Ratio (by volume) 1 : 1			
			Induction time @ 77			30 Minutes
Technical Assistance:			Pot Life @ 77 °F	•		7 Hours
	Weight Per Gallon (r	nixed as recor	mmended)	10.7 – 11.5 lbs		
Available through your local authorized inc	Storage Temperature		– Min.	45 °F		
retailer. For the location of the retailer nea			– Max.	95 °F		
or visit <u>www.benjaminmoore.com</u>	Volatile Organic Compounds (VOC)					
	326 Grams / Liter* 2.72 LBS / Gallon* * Catalyzed					
					able White Conta	ot rotoilor for

 Reported values are for Tintable White. 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% Solids Epoxy Pre-Primer, V156 Moisture Tolerant Epoxy may also be used.

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: Solvent clean all surfaces. Apply one coat of Corotech[®] V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer.

Weathered Galvanized: Clean Thoroughly - Apply one coat V155 100% Solid Epoxy Pre-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% 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.

- Carefully combine the entire contents of V400-90, V400-91 or V400-92 activator with the V400-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.
- 3. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of pail during the mixing process.
- 4. Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
- 5. Allow to induct for 30 minutes.

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: 14 Hrs. @ 50 °F (10 °C) / 7 Hrs. @ 77 °F (25 °C) / 3 Hrs. @ 100°F (38 °C) Do not thin this product – it is ready to use once both components are thoroughly mixed.

Application:

Airless Spray (Preferred Method): Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2000 psi.

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

Brush: Natural Bristle only.

Roller: Industrial Cover with Phenolic core. $\frac{1}{4}$ " - $\frac{1}{2}$ " 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.

Special Note: To ensure complete clarity of the V400-00 Clear, this item should only be catalyzed with the V400-90 Gloss Converter. The use of the Semi-Gloss Converter will give the V400-00 Clear a hazy look. All painted surfaces may be slippery, especially when wet.

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. 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. Do not apply if material, substrate or ambient temperature is below 45 °F (7.2 °C). 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.

TEST DATA		
Flexibility (ASTM D1737)	Pass 3/16" Mandrel	
Sag Resistance (w/-90B)	Passes 8+ mils	
Sag Resistance (w/-91B)	Passes 8+ mils	
Sag Resistance (w/92B)	Passes 16+ mils	
Steam Resistance	Yes	
Dry Heat Resistance	300 °F	
Wet Heat Resistance	150 °F	
Adhesion (ASTM D3359)	Pass 5B	
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: 10, Rust: 0.00%	

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

Polyamide Epoxy Coating V400

Clean Up

Clean up with Corotech® V704 Epoxy Reducer.

Environmental Health & Safety Information

Danger! Harmful if inhaled Causes skin irritation Causes serious eye damage May cause serious eye damage May cause an allergic skin reaction May cause cancer May damage fertility or the unborn child May cause respiratory irritation Causes damage to organs 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

Prevention: Obtain special instructions before use. Do not nandle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a wellventilated area. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust /fume /mist /vapors /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. **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. Immediately call a POISON CENTER or physician. 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 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. 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.

WARNING Cancer and Reproductive Harmwww.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 PROFFESIONAL USE ONLY

NOT FOR RESIDENTIAL USE

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

Benjamin Moore & Co., 101 Paragon Drive, Montvale, NJ 07645 Tel: 866-708-9180 Fax: 888-248-2143 <u>www.benjaminmoore.com</u> M72 V400 EN 080318 ©2017, 2018 Benjamin Moore & Co. Benjamin Moore and the triangle "M" symbol are registered trademarks licensed to Benjamin Moore & Co. All other marks are the property of their respective owner.