



SURFACE TOLERANT EPOXY MASTIC COATING V160

Features

- High solids (79%) and high build – excellent for corners, crevices, welds and as a concrete filler.
- Surface-tolerant mastic for marginal substrates
- Excellent for secondary containment
- Hard scratch- and impact-resistant coating

Recommended For

Ferrous Metal, Galvanized, Aluminum, concrete, Aged Coatings. Intended for use on hand prepared rusty ferrous metal, abrasive blast cleaned and hydro-blasted ferrous metal, blasted concrete, and over a wide range of intact aged coatings. Use in industrial maintenance, coastal structures, pulp and paper plants, food and beverage plants, structural steel, tank exteriors, bridges, offshore, marine and immersion in fresh or salt water.

General Description

Epoxy Mastic Coating is a high-solids, rust-inhibitive, surface-tolerant epoxy mastic for professional use in industrial and commercial applications. Ideal for protection of steel and concrete (floor rated). Excellent for use on ferrous and non-ferrous metals, and when properly top-coated, exhibits excellent chemical and moisture resistance. Resists solvents, dilute acids and alkali attack. **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 7.2 °C (45 °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: N/A	Technical Data[◇]	Tintable White
— Tint Bases: Tintable White (86), Deep Base (87), Clear Base (88). Tint With Industrial Colorants Only TINT ONLY THE "A" COMPONENT. Check colour accuracy by mixing equal portions of the "A" and "B" components, apply and allow to completely dry.	Generic Type Polyamide Epoxy Pigment Type Titanium Dioxide	
— Special Colours: Contact your retailer.	Volume Solids (mixed as recommended) 79 ± 1% Coverage per 3.79 L at 13.9 – 23.2 sq. m. Recommended Film Thickness (175 – 275 sq. ft.)	
Certifications & Qualifications : The products supported by this data sheet contain a maximum of 200 grams per litre VOC / VOS excluding water and exempt solvents. This product is compliant as an Industrial Maintenance Coating. This product has been approved by CFIA (Canadian Food Inspection Agency) for use in Food Processing Facilities. Master Painters Institute MPI # 116, 101	Recommended – Wet 5.8 – 9.1 mils Film Thickness – Dry 4.6 – 7.2 mils	
Technical Assistance: Available through your local authorized independent dealer. For the location of the dealer nearest you, call 1-800-361-5898 or visit www.benjaminmoore.ca	Depending on surface texture and porosity. – To Touch 4 Hours – To Recoat 12 Hours – Maximum Re-coat 6 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 121 °C (250 °F)	
	Viscosity @ 25 °C (77 °F) (mixed as recommended) 90 – 95 KU	
	Flash Point Mixed: Greater than 26.7 °C (80 °F) (TT-P-141, Method 4293)	
	Gloss / Sheen Semi-Gloss (45 – 55 @ 60°)	
	Surface Temperature – Min. 10 °C (50 °F) at application – Max. 32 °C (90 °F)	
	Thin With Do Not Thin	
	Clean Up Thinner Corotech® V704 Epoxy Reducer	
	Mixed Ratio (by volume) 1:1	
	Induction time @ 25 °C (77 °F) 15 Minutes	
	Pot Life @ 25 °C (77 °F) 2 Hours	
	Weight Per 3.79 L (mixed as recommended) 5.26 kg (11.6 lbs)	
	Storage Temperature – Min. 7.2 °C (45 °F) – Max. 35 °C (95 °F)	
	Volatile Organic Compounds (VOC) 198 Grams / Litres* *Catalyzed	

◇ Reported values are for Tintable White.

Surface Tolerant Epoxy Mastic Coating V160

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. Wash using V600 Oil & Grease Emulsifier.

NEW SURFACES: Concrete and Masonry (When used as a block filler): 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. Apply V160 directly to substrate.

NEW SURFACES: Concrete and Masonry (When used as a system): Prime concrete with one coat of V155 100% Solids Epoxy Pre-Primer or V156 Moisture Tolerant Quick Set 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 barrier coat prior to applying epoxy coatings.

Galvanized and Non-Ferrous Metals: Solvent clean all surfaces. V160 is Self-Priming on Non-Ferrous Metals.

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 logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

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 V160-90 activator with the V160-Part A component; scrape the sides of the pail 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 15 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: 5 Hrs. @ 10 °C (50 °F) / 3 Hrs. @ 15 °C (60 °F) / 2 Hrs. @ 25 °C (77 °F) / 1 Hr. @ 38 °C (100 °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 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.

Additional 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. 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. This product will not cure at surface temperatures below 7.2°C (45°F).

TEST DATA	
Direct Impact Resistance	228.6 cm (90 in.) ob.
Flexibility (ASTM D1737)	Pass 6.4 mm (1/4") Mandrel
Persoz Pendulum Hardness	170
Reverse Impact Resistance	101.6 cm .45 kg (40 in. lb.)
Steam Resistant	Yes
Dry Heat Resistance	121 °C (250 °F)
Wet Heat Resistance	65.6 °C (150 °F)
Adhesion (ASTM D3359)	Pass 5B
Abrasion (ASTM D4060)	1 kg load/1000 cycles/CS-17 Wheel: 80 mg loss
Humidity (ASTM D4585) (1000 Hours)	Face Corrosion: None Face Blistering: None
Salt Spray (ASTM B117) (1 Coat, 6 mils, 3000 Hours)	Face Corrosion: None Face Blistering: None

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

SYSTEMS RECOMMENDATIONS	
PRIMERS	
Ferrous Metal (Blasted)	Use Direct, or use V150 Line Primer
Ferrous Metal (Marginally Prepared)	Use Direct
Non-Ferrous Metal	Use Direct, or use V175-00
Concrete Filler	Use Direct or use V155-00 or V156-00
Aged coatings	Use Direct
COMPATIBLE FINISHES	
V400 Line, V410, V440 Line, V500 Line, V510 Line, V520 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.	

Surface Tolerant Epoxy Mastic Coating V160

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

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/ gas/ 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, 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. Keep cool. Wear protective gloves/protective clothing/eye protection/face protection.

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 or rash 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 experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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
PROTECT FROM FREEZING
FOR PROFESSIONAL USE ONLY**

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