Benjamin Moore

COROTECH® HIGH PERFORMANCE

COAL TAR EPOXY
V157

Features

- Formulated for use over properly prepared/primed steel, iron, concrete, and non-ferrous metal
- Provides excellent protection from water, acids, alkalis, and mild solvents
- Can be applied directly to the substrate; use with a primer for extra longevity
- Suitable for use in USDA inspected facilities

General Description

Coal Tar Epoxy is a high-solids, two-component tar filled coating formulated to provide excellent film build in one or two coats. The high level of cross-linking provides an excellent barrier coat for immersion service in fresh water, salt water or waste water. Additionally, this product is resistant to many acids, alkalis and mild solvents in splash and spill exposures. **This is a two component product that requires 4 parts 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 and/or primed Steel, Iron, Concrete, and non-ferrous metals. V157 Coal Tar Epoxy is designed for the waste water treatment, chemical processing, pulp and paper, and industrial maintenance markets or anywhere a tar filled polyamide epoxy is required for excellent resistance to water, chemicals and underground exposures.

Limitations

- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °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.

Product Information

Colors — Standard:

Black (80)

— Tint Bases:

N/A

Do Not Tint

— Special Colors:

Contact your retailer

Certification & Qualifications:

The products supported by this data sheet contain a maximum of 250 grams per liter VOC / VOS (2.08 lbs. /gal.) excluding water & exempt solvents.

Master Painters Institute MPI # 35

Meets Performance Requirements for Army Corps of Engineers C-200

Meets Performance Requirements for SSPC Paint 16

Meets Performance Requirements for DOD-P-23236

Meets State of Tennessee DOT requirements for Non-Penetrating Coal Tar Epoxy Sealer.

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		Black
Generic Type		Polyamide Epoxy
Pigment Type		Coal Tar
Volume Solids (mixed as recommended)		70% ± 1.0%
Coverage per Gallon at Recommended Film Thickness		70 – 135 Sq. Ft.
Recommended Film Thickness	– Wet	12 – 23 mils
	– Dry	8.3 – 16.1 mils
Depending on surface texture and porosity.		
Dry Time @ 77 °F (25 °C) @ 50% RH	– To Touch	2 Hours
	– To Recoat	12 Hours
	– Full Cure	3 – 7 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		250 °F
Viscosity @ 77 °F (mixed as recommended)		107 ± 4 KU
Flash Point		85 °F (TT-P-141, Method 4293)
Gloss/Sheen		Flat (3 – 5 @ 60°)
Surface Temperature at application	– Min.	50 °F
	– Max.	100 °F
Thin With		Do Not Thin
Clean Up Thinner		Corotech® V703 Xylene or Corotech® V704 Epoxy Reducer
Mixed Ratio (by volume)		4 : 1
Induction time @ 77 °F		30 Minutes
Pot Life @ 77 °F		6 Hours
Weight Per Gallon (mixed as recommended)		11.0 lbs.
Storage Temperature	– Min.	45 °F
	– Max.	95 °F

Volatile Organic Compounds (VOC)

250 Grams / Liter* 2.08 LBS / Gallon*

* Catalyzed

Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils and accumulated salts must be removed prior to employing specific surface preparation methods. Solvent washing in accordance with SSPC-SP 1 will best accomplish this task.

Steel: Non-Immersion requires Hand Tool Cleaning (SSPC-SP 2) or Power Tool Cleaning (SSPC-SP 3) or for best results, Commercial Blast Cleaning (SSPC-SP 6) followed by the proper primer. May be applied direct to ferrous metal in atmospheric exposures. Immersion service requires Near White Metal Blast (SSPC-SP 10) followed by the proper primer.

Concrete: Must have form/release agents removed by pressure washing or other suitable methods. Acid etching or abrasive blasting may be required to properly open the surface. May be applied direct to concrete.

Non-Ferrous Metals: Solvent Wash (SSPC-SP 1) as indicated above. Rusted areas on galvanized metal should be removed by Hand Tool Cleaning (SSPC-SP 2) or Power Tool Cleaning (SSPC-SP 3). Non-Ferrous metals should be primed for best results.

Please consult your retailer for other surface preparations or for use in severe environments.

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.

1. Carefully empty the entire contents of V157-90 activator into the can of V157-Part A component resin; scrape the sides of the pail of Part B to make sure all liquid has been added. Part A container is filled to completely accept entire contents of Part B material.
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): A 30:1 pump (minimum) is required to adequately spray this product. Tip range between .025 and .031. Total fluid output pressure at tip should not be less than 2400 psi.

Air Spray (Pressure Pot): Not recommended due to excessive amount of thinner necessary to atomize.

Brush: Stiff Natural Bristle only. / **Roller:** Industrial Cover with Phenolic core.

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 50 °F (10 °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	
Sag (ASTM D4400)	25 mils +
Flexibility (ASTM D1737)	Pass 1/8” Mandrel
Steam Resistance	Yes
Dry Heat Resistance	250 °F
Wet Heat Resistance	180 °F
Adhesion (ASTM D3359)	Pass 5B
Accelerated Weathering (ASTM G53)	500 hours, no change
Humidity (ASTM D4585) 2 coats over V150 primer (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
Waste Water	Excellent
Acids	Good
Alkalis	Good
Solvents	Fair
Fuel	Fair
Acidic Salt Solutions	Good
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Good

SYSTEMS RECOMMENDATIONS
COMPATIBLE PRIMERS
V132, V150, V155, V160, V400, V430
CAPATIBLE INTERMEDIATES
V160 Line, V163
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® V703 Xylene or V704 Epoxy Reducer

Environmental Health & Safety Information

DANGER

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

May damage fertility or the unborn child

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. Do not breathe dust/fume/mist/vapors/spray. 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. 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: Immediately 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 on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If skin irritation or rash occurs get medical attention. If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. If swallowed immediately call a POISON CENTER or physician. Do NOT induce vomiting. Rinse mouth. 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.

 **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.