



# COAL TAR EPOXY BLACK 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

## 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.

## General Description

V157 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. The high build of this product provides an excellent non-conductive film for use between dissimilar metals. This product may be applied direct to prepared ferrous metal and concrete. **This is a two-component product that requires 4 parts of the V157-80 "A" Component mixed with 1 part of the V157-90 "B" Component. Mix ratio is 4:1. Do not mix partial kits.**

## Limitations

- 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.

## Product Information

| Colours — Standard:  | Technical Data  | Black   |
|--|---|---|
| Black (80)   | Generic Type  | Polyamide Epoxy                                       |
|  | Pigment Type  | Coal Tar  |
|  | Volume Solids (mixed as recommended)  | 70% ± 1.0%  |
|  | Coverage per 3.79 L at  | 6.5 – 12.5 sq. m.                                     |
|  | Recommended Film Thickness  | (70 - 135 sq. ft.)                                    |
|  | Recommended Film Thickness  | 12 – 23 mils  |
|  |   | 8.5 - 16.5 mils                                       |
|  | Depending on surface texture and porosity.  |   |
|  | Dry Time @ 25° C (77 °F)  | 2 Hours   |
|  | – To Recoat   | 12 Hours – Max: 72 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   | 121 °C (250 °F)                                       |
|  | Viscosity @ 25 °C (77 °F) (mixed as recommended)  | 105 – 110 KU  |
|  | Flash Point   | 29.4 °C (85 °F). (TT-P-141, Method 4293)              |
|  | Gloss/Sheen   | 3 – 5 (Units @ 16 °C [60 °F])                         |
|  | Surface Temperature at application  | – Min. 10 °C (50 °F)<br>– Max. 32.2 °C (90 °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 @ 25 °C (77 °F)  | 30 Minutes  |
|  | Pot Life @ 25 °C (77 °F)  | 6 Hours   |
|  | Weight Per 3.79 L (mixed as recommended)  | 5 kg (11.0 lbs)                                       |
|  | Storage Temperature   | – Min. 7.2 °C (45 °F)<br>– Max. 35 °C (95 °F)         |
|  | <b>Volatile Organic Compounds (VOC)</b><br>250 Grams / Litre*<br>* Catalyzed  |   |
| <b>Colours — Standard:</b>   |   |   |
| Black (80)   |   |   |
| <b>— Tint Bases:</b>   |   |   |
| N/A  |   |   |
| Do not tint.   |   |   |
| <b>— Special Colours:</b>  |   |   |
| Contact your retailer.   |   |   |
| <b>Certification:</b>  |   |   |
| The products supported by this data sheet contain a maximum of 250 grams per litre VOC / VOS excluding water & exempt solvents.  |   |   |
| This product is compliant as an Industrial Maintenance Coating.  |   |   |
| This product is currently approved for use under 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.   |   |   |
| <b>Technical Assistance:</b>   |   |   |
| Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-877-711-6830, or visit <a href="http://www.benjaminmoore.ca">www.benjaminmoore.ca</a> |   |   |

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

## Coal Tar Epoxy Black V157

### 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 dealer 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 logging onto Health Canada @ [http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked\\_questions-questions\\_posees-eng.php](http://www.hc-sc.gc.ca/ewh-semt/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.

- 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.
- 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.

#### 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 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.

| TEST DATA  |  |
|--|--|
| Sag (ASTM D4400)   | 25 mils +  |
| Flexibility (ASTM D1737)   | Pass 3.2 mm (1/8") Mandrel   |
| Steam Resistance   | Yes  |
| Dry Heat Resistance  | 121 °C (250 °F)  |
| Wet Heat Resistance  | 82.1 °C (180 °F)   |
| Adhesion (ASTM D3359)  | Pass 5B  |
| Accelerated Weathering (ASTM G53)                                      | 500 hours, no change   |
| Humidity (ASTM D4585)<br>2 coats over V150 Line<br>primer (1000 Hours) | Face Corrosion: None<br>Face Blistering: None<br>Rating: 10, Rust: 0.00% |
| Salt Spray (ASTM B117)<br>(2 Coats over V150<br>(1000 Hours)           | Face Corrosion: None<br>Face Blistering: None<br>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 Line, V150 Line, V155 Line, V160 Line, V400-00, V430-00  |  |
| COMPATIBLE INTERMEDIATES  |  |
| V160 Line   |  |
| For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service. |  |

## Coal Tar Epoxy Black V157

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### 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**

**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. 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. 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:** 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 CO<sub>2</sub>, dry chemical, or foam for extinction.

14% of the mixture consists of ingredient(s) of unknown toxicity

**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.**