



Selection & Specification Data

Generic Type

Coal-tar epoxy polyamide

Description

Renowned high build coal tar epoxy polyamide for protection of steel and concrete in single or two-coat applications in a broad variety of aggressive industrial

applications.

Features

- · Excellent chemical, corrosion and abrasion resistance
- High-build, 16-24 mils (400-610 microns) in a single coat (up to 35 mils with force curing)
- Compatible with controlled cathodic protection
- · Suitable for use in exposures as referenced in the following specifications:
- · Corp of Engineers C-200, C200a · AWWA C-210 for exterior
- SSPC-Paint 16
- · Steel Tank Institute Corrosion Control System STI-

Color Black (0900)

Primer Self-priming, or use suitable prime as recommended

by Carboline.

Dry Film Thickness 16.0 mils (406 microns) in one or two coats

Total dry film thickness less than 8 mils (200microns) or in excess of 35 mils (875 microns) is not recommended. Wet-on-wet spray techniques should be used for high thicknesses allowing time for solvents to flash

Solids Content

By Volume 74% +/- 2%

Theoretical Coverage Rate

1187 ft² at 1.0 mils (29.1 m²/l at 25 microns) 74 ft² at 16.0 mils (1.8 m²/l at 400 microns)

Allow for loss in mixing and application.

VOC Values Thinner 10 10 oz/gal: 2.2 lbs/gal 269 g/l

As Supplied 1.85 lbs/gal 222 g/l

Thinner 10: 25 oz/gal: 2.7 lbs/gal 327 g/l
*Maximum thinning for 250 g/l restricted areas is 6 oz/gal.

Dry Temp. Continuous: 350 °F (177 °C) Non-Continuous: 370 °F (188 °C) Resistance

Limitations Do not use for potable water requirements.

Topcoats Not recommended

Wet Temp. Immersion temperature should not exceed 120°F

Resistance (49°C)

Substrates & Surface Preparation

General Surfaces must be clean and dry. Employ adequate

methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the

coating.

Immersion: SSPC-SP10 Steel

Non-Immersion: SSPC-SP6

SSPC-SP2 or SP3 as minimum requirement. Surface Profile: 2.0-3.0 mils (50-75 micron)

Substrates & Surface Preparation

Concrete or CMU

Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

Performance Data

Test Method	System	Results
ASTM B117 Salt Fog	Blasted Steel 2 cts. 300M	No blistering, rusting or delamination. No measurable undercutting at scribe after 2000 hours
ASTM D2794 Impact	Blasted Steel 2 cts. 300M	Impact site diameter, Inches: 3/8,3/8, 1/2 100 in/lbs Gardner Impactor at 1/2 in. diam.
ASTM D4060 Abrasion	Blasted Steel 2 cts. 300M	130 mg. loss after 1000 cycles, CS17 wheel, 1000 gm load
ASTM D4541 Adhesion	Blasted Steel 2 cts. 300M	1443 psi (Pneumatic)

Test reports and additional data available upon written request. *Disclaimer: Bitumastic 300M is a proprietary formula that is not necessarily formulated to the exact compositional guidelines set forth in some of these standards. Minor deviations that control and improve application characteristics may be present, but does not have a detrimental effect on the suitability for use outlined therein.

Mixing & Thinning

Mixing Power mix separately, then combine and power mix

for a minimum of two minutes. DO NOT MIX PARTIAL

Thinning Up to 10 oz/gal (8%) w/ #10

Up to 25 oz/gal (20%) w/ #10 for the first coat

application to concrete.

Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty,

whether expressed or implied.

Ratio 4:1 Ratio (A to B) Pot Life 75°F (24°C) 2 Hours

90°F (32°C) 1 Hour

Pot life ends when coating loses body and begins to

Application Equipment Guidelines

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

(General)

Spray Application This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and

Graco.

Conventional

Spray

Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, with 50' maximum material hose .086" I.D. fluid tip and appropriate air cap.

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Bitumastic[®] 300 M

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Airless Spray Pump Ratio: 30:1*

GPM Output: 3.0 (min.) Material Hose: ½" I.D. (min.) Tip Size: .023-.035" Output PSI: 2100-2500 Filter Size: 30 mesh

*Teflon packings are recommended and available from

the pump manufacturer.

Brush & Roller (General)

Recommended for touch up, striping of weld seams and hard-to-coat areas only. Avoid excessive re-

brushing or re-rolling.

Brush Use a medium bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic

core.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Minimum	50 °F (10 °C)	50 °F (10 °C)	50 °F (10 °C)	0%
Maximum	90 °F (32 °C)	125 °F (52 °C)	110 °F (43 °C)	90%

Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

Curing Schedule

Surface Temp.*	Dry to Touch		Maximum Recoat Time	Minimum Recoat Time
50 °F (10 °C)	8 Hours	14 Days	24 Hours	10 Hours
75 °F (24 °C)	4 Hours	7 Days	24 Hours	6 Hours
90 °F (32 °C)	2 Hours	5 Days	24 Hours	3 Hours

These times are based on a 16.0 mil (400 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. If the maximum recoat time is exceeded, the surface must be abraded by sweep blasting prior to the application of additional coats. Holiday Detection (if required): Wet sponge types may be used if the dry film thickness is below 20 mils (500 microns). High voltage spark testing should be used when the dry film thickness exceeds 20 mils (500 microns). Refer to the latest version of NACE SP0188 for specific procedures.

FORCE CURING recommended for thicknesses above 24 mils

Hold substrate at 150 F for 8 hours and material will be ready to handle for immersion service.

Cleanup & Safety

Cleanup Use #2 Thinner or Acetone. In case of spillage, absorb

and dispose of in accordance with local applicable

regulations.

Safety Read and follow all caution statements on this

product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face,

hands and all exposed areas.

Caution This product contains flammable solvents. Keep away

from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive

and non-sparking shoes.

Packaging, Handling & Storage

Shelf Life Part A: Min. 24 months at 75°F (24°C)

Part B: Min. 36 months at 75°F (24°C)

*Shelf Life: (actual stated shelf life) when kept at recommended storage

conditions and in original unopened containers.

Shipping Weight 1.25 Gallon Kit - 12 lbs (6 kg) **(Approximate)** 5 Gallon Kit - 50 lbs (26 kg)

Storage 40° -11° Temperature & 0-1009

40° -110°F (4°-43°C) 0-100% Relative Humidity

Humidity

Flash Point Part A: 75°F (24°C) (Setaflash) Part B: >200°F (93°C)

Storage Store indoors



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