

Selection & Specification Data

Generic Type Coal Tar

Description Ultra-high build, single-component coal tar

mastic for protecting steel and concrete substrates subject to aggressive conditions and for below grade damp proofing

requirements.

Features • Application up to 30 dry mils (750 microns)

in a single coat

Self priming, single-coat capabilities

Excellent corrosion resistance

■ Complies with MIL-C-18480-B and Bureau

of Reclamation CA50 specifications

Color Black (0900)

Finish Low Gloss

Primers Self-priming

Topcoats Not recommended

Dry Film 18.0 mils (450 microns) in one or two coats.

Thickness Total dry film thickness less than 12 mils (300

microns) or in excess of 30 mils (750 microns)

not recommended.

Solids Content By Volume: $68\% \pm 2\%$

Theoretical 1090 mil ft² (26.7 m²/l at 25 microns) **Coverage Rate** Allow for loss in mixing and application

VOC Values As supplied: 3.0 lbs./gal (360 g/l)

Thinned:

12 oz/gal w/ #10 3.5 lbs./gal (417 g/l)

These are nominal values.

Dry Temp.Continuous: $350^{\circ}F$ (177°C)ResistanceNon-Continuous: $400^{\circ}F$ (204°C)

Wet Temp. Immersion temperature should not exceed

Resistance 120°F (49°C).

Limitations Do not use for potable water requirements

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.

Steel <u>Immersion:</u> SSPC-SP10

Non-Immersion: SSPC-SP6 for maximum protection. SSPC-SP2 or SP3 as minimum

requirement.

Surface Profile: 2.0-3.0 mils (50-75 micron)

Galvanized Non-Immersion: Sweep blast to roughen Steel surface and produce a 1.0-2.0 (25-50 micron)

profile.

Concrete 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.

Application Equipment

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 Guidelines:

Spray Application (General)

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.

Airless Spray

Pump Ratio: 30:1 GPM Output: 3.0 (min.) Material Hose: 3/8" I.D. (min.) .023-.035" Tip Size: Output PSI: 2300-2500 Filter Size: 30 mesh

Teflon packings are recommended and available

from the pump manufacturer.

Brush & Roller (General)

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

brushing or re-rolling.

Brush Use a medium bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic

Mixing & Thinning

Mixing

Power mix until uniform in consistency.

Thinning

May be thinned up to 12 oz/gal (10%) with Thinner #10 if needed. When used directly to concrete, thinning is required on the first coat to provide adequate "soak-in". Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

Cleanup & Safety

Cleanup

Use Thinner #2 or Xylene. 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.

Ventilation

Warning: Vapors may cause explosion. When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.

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, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

Application Conditions

Condition	Material	Surface	Ambient	Humidity	
Normal	60°-85°F	60°-85°F	60°-90°F	0-80%	
	(16°-29°C)	(16°-29°C)	(16°-32°C)		
Minimum	50°F	50°F	50°F	0%	
	(10°C)	(10°C)	(10°C)	0%	
Maximum	90°F	125°F	110°F	90%	
	(32°C)	(52°C)	(43°C)	90%	

Industry standards are for substrate temperatures to be above the dew point. This product simply requires the substrate temperature to be above the dew point. 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.

Curina Schedule

Surface Temp. & 50% Relative Humidity	Dry to Touch	Minimum Recoat Time	Cure for Immersion
50°F (10°C)	24 Hours	36 Hours	30 Days
75°F (24°C)	12 Hours	24 Hours	14 Days
90°F (32°C)	8 Hours	16 Hours	7 Days

Backfilling/Burial: May be started 7 days after the final coat is applied, providing the surface temperature has remained above 60°F (16°C). These times are based on an 18.0 mil (450 micron) dry film thickness. Higher film thicknesses, insufficient ventilation, high humidity or cooler temperatures will require longer cure times. 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 NACE RP0188-90 for specific procedures.

Packaging, Handling & Storage

1 Gallon **Shipping Weight** 5 Gallons (Approximate) 65 lbs (30 kg) 13 lbs. (6 kg)

Flash Point (Setaflash) 80°F (26°C)

Storage (General) Store Indoors.

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

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

*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.



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October 2004 replaces April 2003