

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 requirement
Features	<ul style="list-style-type: none"> • 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)
Primer	Self-priming
Dry Film Thickness	18.0 mils (457 microns) one or two coats
	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% +/- 2%
Theoretical Coverage Rate	1091 ft ² at 1 mil (27 m ² /l at 25 microns) 61 ft ² at 18 mils (1 m ² /l at 450 microns)
	Allow for loss in mixing and application.
VOC Values	Thinner 10 12 oz/gal: 2.72 lbs./gal (327 g/l) As Supplied 2.3 lbs./gal (276 g/l) These are nominal values.
Dry Temp. Resistance	Continuous: 350 °F (177 °C) Non-Continuous: 400 °F (204 °C)
Wet Temp. Resistance	Immersion temperature should exceed 120°F (49°C).
Limitations	Do not use for potable water requirements.

Substrates & Surface Preparation

General	Surfaces <u>must</u> 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	Immersion: 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 Steel	Non-Immersion: Sweep blast to roughen surface and produce a 1.0-2.0 (25-50 micron) profile.
Concrete or CMU	Concrete <u>must</u> 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.

Mixing & Thinning

Mixing	Power mix until uniform in consistency.
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Mixing & Thinning

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.
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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.

Spray Application (General)	This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved.
Conventional Spray	Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, with 50' maximum material hose 0.086" 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.) Tip Size: 0.021-0.035" Output PSI: 2300-2500 Filter Size: 30 mesh *PTFE 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 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%

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.

Curing Schedule

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

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 SP0188-06 for specific procedures.

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

Packaging, Handling & Storage

Shelf Life	Min. 24 months at 75°F (24°C) <small>*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.</small>
Shipping Weight (Approximate)	1 Gallon - 13 lbs. (6 kg) 5 Gallons - 65 lbs (30 kg)
Storage Temperature & Humidity	40°-110°F (4°-43°C) 0-100% Relative Humidity
Flash Point (Setaflash)	80°F (26°C)
Storage	Store Indoors.



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January 2013

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