

# Coal Tar Epoxy™ TECHNICAL DATA

## SOLVENT-FREE EPOXY COATING

Marine Structures  
Waste Water Facilities  
Industrial Traffic Coating  
Parking Garage Floors

Solvent-Free  
Easy 1:1 Mixing Ratio  
Cycloaliphatic System  
No 'Sweat-In" (Induction Time)

<p>STANDARD PRODUCT DESCRIPTION</p>	<p>Coal Tar Epoxy is a 100% solids, high performance Cycloaliphatic, modified coal tar floor coating designed to bond to most materials (concrete, steel, fiberglass, wood, etc.). High strength and resistant to most corrosive reagents. Coal Tar Epoxy will bond to cold damp and is tolerant of oily substrates. This epoxy features the superior water resistance of coal tar epoxies and has the mild "tar" odor and is black in color. Flexibility exceeds that of normal epoxies.</p>
<p>USES</p>	<p>Marine structures Tanks Waste Water facilities Broadcast coating for industrial traffic Traffic wear-course in parking garages Primer/sealer/topcoat for degreased concrete</p>
<p>FEATURES</p>	<p>Excellent chemical resistance Low viscosity Convenient 1 to 1 ratio by volume Non-blushing &amp; non-water spotting Bonds to cold damp concrete Superior cycloaliphatic curing system More flexibility than regular epoxies.</p>
<p>PHYSICAL PROPERTIES</p>	<p>COLOR ..... Black          COMPRESSIVE STRENGTH ..... ASTM D695 8,500 psi          TENSILE STRENGTH ..... ASTM D638 3,600 psi          ELONGATION AT BREAK ..... ASTM D638 28%          ABRASION RESISTANCE .....          CS-17 WHEEL, 1 kg LOAD ..... ASTM D4060 0.12 gm loss          WATER ABSORPTION ..... ASTM D570 0.17%          (2 hour boil)          FLEXURAL STRENGTH ..... ASTM D790 4,000 psi          SHORE D HARDNESS ..... ASTM D2240 80          HEAT DISTORTION ..... ASTM D649 127°F          TEMPERATURE          FLASH POINT (PART A) ..... &gt; 300°F (closed cup)          FLASH POINT (PART B) ..... &gt; 24°F (closed cup)          BOND STRENGTH TO ..... 100% Concrete failure          CONCRETE          SPREAD RATE ..... 160 sq. ft./gal. @ 10 mils          V.O.C. .... 0          VOLUME SOLIDS ..... 100%          SHELF LIFE ..... 1 year minimum</p>

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<b>CURE SCHEDULE</b>	POT LIFE @ 75°F ..... 25-40 minutes (for a 6 ounce test) TACK FREE ..... 12 hours CHEMICAL EXPOSURE ..... 7 days NOTE: all epoxies take 5 - 7 days for full cure.
<b>CHEMICAL RESISTANCE</b>	Water (fresh & salt) ..... Excellent Sewerage ..... Excellent Sulfuric acid 1-75 % ..... Excellent Gas/oils Excellent Other mild acid and caustic dilutions ..... Excellent
<b>VISCOSITY</b>	Viscosity at 72°F: Part A:            1000 cps Part B:            450 cps Mixed:            600 cps
<b>SURFACE PREPARATION</b>	Surface to be topcoated must be clean and free of oils, grease and loose contamination. Abrasive blasting of all surfaces is recommended. This epoxy contains no V.O.C.s so there is no solvent to lift or damage the substrate.
<b>APPLICATION</b>	Thoroughly stir Part B (black curing agent) before combining with Part A (epoxy base) due to pigment settling. Mix Coal Tar epoxy base with the Coal Tar curing agent. The mixing ratio is 1/1 (base/curing agent) by volume or 1/0.87 by weight. Coal Tar Epoxy does not require a 'sweat-in' or induction time (induction time is typical of lesser quality epoxies). The mixed components should be used immediately.  Potlife is approximately 25-40 minutes at 75°F, so mix only the amount of epoxy that can be easily applied within that time limit. Thin with xylene if necessary or if using as a concrete sealer. Apply by roller or brush. Typical application thickness by roller is 10 mils. One gallon of epoxy will cover 160 sq. ft. at 10 mils thickness.  Clean up using xylene.
<b>TEMPERATURE</b>	Temperature will exert a considerable influence on the rate of curing of chemically cured coatings such as Coal Tar Epoxy. In broad terms expect each 10°C, (18°F), rise or fall in temperature to half or double dry times and pot lives.
<b>TRANSPORT</b>	Epoxy base - Nonregulated by USDOT, IATA & IMO. Curing agent - USDOT, IATA & IMO "Regulated". Class 8, Packing group III, UN 2735, Corrosive. Curing agent quantities of under 4 liters is ORM-D exempt for ground shipment.

**SAFETY:** This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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