

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 & 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) > 300°F (closed cup) FLASH POINT (PART B) > 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>

MULTI-VENDOR EPOXY SOLUTIONS

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CURE SCHEDULE	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.
CHEMICAL RESISTANCE	Water (fresh & salt) Excellent Sewerage Excellent Sulfuric acid 1-75 % Excellent Gas/oils Excellent Other mild acid and caustic dilutions Excellent
VISCOSITY	Viscosity at 72°F: Part A: 1000 cps Part B: 450 cps Mixed: 600 cps
SURFACE PREPARATION	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.
APPLICATION	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.
TEMPERATURE	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.
TRANSPORT	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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