

TECHNICAL DATA

C9578 SYSTEM COAL TAR EPOXY

DESCRIPTION AND USES

A two-component, high solids polyamide converted epoxy blended with a refined coal tar pitch. Meets Corps of Engineers Specs C-200, C-200A, AWWA Spec C210-92, SSPC-Paint 16 and DOD 23236, Type I, Class 2.

Designed for use on steel or concrete surfaces in severe industrial or marine environments. Provides outstanding resistance to abrasion, strong chemicals and immersion in fresh or salt water. Not for use in potable water tanks; may impart an odor to liquids. Ideal for use on a variety of surfaces exposed to extremely corrosive environments. Not recommended for exposure to strong acids or immersion in strong solvents.

FEATURES:

- Compatible with controlled cathodic protection
- Suitable for used in exposures as referenced in
 - the following specifications*
 - Corp of Engineers C-200, C200a
 - * AWWA C-210-92 for exterior
 - SSPC-Paint 16
 - DOD 23236, Type I, Class 2

PRODUCTS

1.25 Gallons Description

C9578402Coal Tar Base Component (1-Gallon)C9502504Coal Tar Epoxy Activator (1-Quart)5-GallonsDescriptionC9578380Coal Tar Epoxy Base (Partial pail)C9502402Coal Tar Epoxy Activator (1-Gallon)

COMPANION PRODUCT

RECOMMENDED PRIMERS

C9578 is a self-priming product.

COMPATIBLE PRIMERS

HS9369 or HS9381 Epoxy primers.

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength[®] Cleaner/Degreaser item #3599402, commercial detergent or other suitable cleaner. Mold and mildew areas must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

STEEL: For immersion service, abrasive blasting to a minimum Near White Grade (SSPC-SP-10, NACE 2) with a 2-3 mil (50-75 μ) surface profile is recommended for optimal performance. All weld spatter must be removed along wield seams, rough welds should be ground smooth, and all sharp edges should be ground to a smooth radius.

Commercial Grade (SSPC-SP-6, NACE 3) with a 2-3 mil (50-75 μ) surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats.

CONCRETE (IMMERSION): Hand or power tool clean to remove all loose or unsound concrete, masonry, or previous coating. Very dense, non-porous concrete should be acid etched or abrasive blasted to remove the laitance layer and create a surface profile of 1.5-3 mils. Allow new concrete to cure for 30 days before coating.

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PRODUCT APPLICATION (cont.)

MIXING

Power mix base component before adding activator, then combine at a 4:1 ratio by volume and power mix together. Thoroughly mix for at least two minutes. Note: both components will thicken in viscosity when cold. The material should be warmed to room temperature before mixing for best results.

APPLICATION

Apply only when air and surface temperatures are between 50-100°F (10-38°C) and surface is at least 5°F above dew point. For immersion service and severe environments, a total dry film thickness of 16-20 mils is required. It is strongly recommended this be achieved as a two-coat application of 8-10 mils per coat. Conventional or airless spray preferred.

EQUIPMENT RECOMMENDATIONS

BRUSH/ROLLER: For small touch-up or striping of weld seams.

CONVENTIONAL SPRAY: Pressure pot with dual regulator, minimum ³/₈ inch I.D. fluid hose not greater than 50 feet in length. Use a 0.086 inch I.D. fluid tip with the appropriate air cap. Thin as needed up to 16% with 160 Thinner for all air atomized spray applications.

AIRLESS SPRAY:

Pump Ratio	Pump Output	Fluid Hose
30:1	3.0 GPM	½ inch I.D.
Fluid Pressure 2,100-2,500	Fluid Tip 0.023-0.035	Filter Mesh 30

THINNING

Normally not necessary. If desired, thin as needed up to 16% with 160 Thinner.

CLEAN UP

160 Thinner or MEK

PERFORMAMCE CHARACTERISTICS

TABER ABRASION

METHOD: ASTM D4060, CS-17 wheels, 1,000 gram load, 1,000 cycles TEST SAMPLE: Blast cleaned steel, 2 coats of material RESULT: 130 mg loss

PULL OFF ADHESION

METHOD: ASTM D4541 TEST SAMPLE: Blast cleaned steel, 2 coats of material RESULT: >1,400 psi (pneumatic)

IMPACT RESISTANCE (direct)

METHOD: ASTM D2794, Gardner Impact (1/2 inch diameter) TEST SAMPLE: Blast cleaned steel, 2 coats of material RESULT: 100 inch lbs.

SALT FOG EXPOSURE

METHOD: ASTM B117, 2,000 hour exposure TEST SAMPLE: Blast cleaned steel, 2 coats of material RESULT: No blistering, rusting or delamination. No measurable undercutting at scribe.

For chemical and corrosion resistance, see the Rust-Oleum Industrial Brands Catalog (Form #275585).



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PHYSICAL PROPERTIES

Solvents Xylene, Methanol Weight* Per Gallon 10.2-11.0 lbs. Per Liter 1.2-1.3 kg Solids* By Weight 75-79% By Volume 75-77% Volatile Organic Compounds* <250 g/l (2.1 lbs./gal.), as supplied Recommended Dry Film Thickness (DFT) Per Coat 8-10 mils (200-250µ), minimum Wet Film to Achieve DFT 10.5-13.5 mils (262.5-337.5µ) Theoretical Coverage at 1 mil DFT (25µ) 1,203-1,235 sq. ft./gal. (29.6-30.4 m²/l) Practical Coverage at 8ecommended DFT (assumes 15% material loss) 100-130 sq. ft./gal. (2.5-3.2 m²/l) Mixing Ratio 4:1 base to activator by volume Induction Period None Pot Life 2 hours @ 80°F; 1 hour @ 100°F C1-73°C) and 50% Relative Humidity Tack-free 3-4 hours Handle 18-36 hours 18-36 hours Recoat 16-25 hours (If recoat time exceeds 48 hours, brush blast surface of previ create a surface profile)			COAL TAR EPOXY	
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	•	oat	16-25 hours (If recoat time exceeds 48 hours, brush blast surface of previous coating to create a surface profile)	
Porce Cure 2 hours at 225°F (107°C)	Force Cure		2 hours at 225°F (107°C)	
Dry Heat Resistance 140°F (60°C)	Dry Heat Resistance		140°F (60°C)	
Maximum Immersion Temperature 120°F (49°C)	Maximum Immersion Temperature		120°F (49°C)	
Shelf Life 12 months, both components (do not store in temperature above	Shelf Life		12 months, both components (do not store in temperature above 135°F)	
Safety Information For additional information, see MSDS	Safety Information		For additional information, see MSDS	

* Activated material

Calculated values are shown and may vary slightly from the actual manufactured material.

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