RUST-OLEUM® HIGH PERFORMANCE

RUST-OLEUM® 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.

PRODUCT FEATURES

- Compatible with controlled cathodic protection
- Suitable for use 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 1, Class 2

PRODUCTS

DESCRIPTION	SIZE	SKU
Coal Tar Epoxy Activator	1 Qt.	C9502504
Coal Tar Epoxy Activator	1 Gal.	C9502402
Coal Tar Base Component	1 Gal.	C9578402
Coal Tar Base Component	4 Gal. filled in 5 Gal. Pail	C9578380

COMPANION PRODUCTS

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 Krud Kutter® Original Cleaner Degreaser, commercial detergent or other suitable cleaner (SSPC-SP-1). 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 (50-75µ) 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 (50-75µ) 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.

CURING

For water immersion service, allow 7 consistent days at 77°F (25°C). Below 50°F (10°C) allow 14 days prior to immersion service.

EQUIPMENT RECOMMENDATIONS

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

CONVENTIONAL SPRAY: Pressure pot with dual regulator, minimum ⅜ 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 Out Put	Fluid Hose
30:1	3.0 GPM	½ inch I.D.
Fluid Pressure	**Fluid Tip**	**Filter Mesh**
2,100-2,500	0.023-0.035	30

THINNING

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

CLEAN UP

160 Thinner or MEK

PERFORMANCE 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 (½ 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

		COAL TAR EPOXY
Resin Type		Polyamide converted epoxy blended with refined coal tar
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)
Practical Coverage at Recommended DFT (assumes 15% material loss)		100-130 sq ft/gal. ($2.5\text{-}3.2 m^2/l$)
Mixing Ratio		4:1 base to activator by volume
Induction Period		None
Pot Life		2 hours at 80°F, 1 hour at 100°F
Dry Times at 75°F and 50% Relative Humidity	**Tack-Free**	3-4 hours
	Handle	18-36 hours
	Recoat	16-25 hours (If recoat time exceeds 48 hours, brush blast surface of previous coating to create a surface profile)
Force Cure		2 hours at 225°F (107°C)
Dry Heat Resistance		140°F (60°C)
Maximum Immersion Temperature		120°F (49°C)
Shelf Life		12 months, both components (do not store in temperature above 135°F)
Safety Information		For additional information, see SDS