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, Steel Tank Institute Corrosion Control System STI-P3, AWWA Spec C210-84, and SSPC-Paint 16.

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:
- High-build, 16-24 mils (400-610μ) in a single coat (up to 35 mils with force curing)
- 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 for exterior
  - SSPC-Paint 16
  - Steel Tank Institute Corrosion Control System STI-P

PRODUCTS

1.25 Gallons Description
C9578402 Coal Tar Base Component (1-Gallon)
C9502504 Coal Tar Epoxy Activator (1-Quart)

5-Gallons Description
C9578380 Coal Tar Epoxy Base Component (Partial pail)
C9502402 Coal 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 (50-75µ) surface profile is recommended for optimal performance. All weld spatter must be removed along weld 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.
PRODUCT APPLICATION (cont.)

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:

<table>
<thead>
<tr>
<th>Pump Ratio</th>
<th>Pump Output</th>
<th>Fluid Hose</th>
</tr>
</thead>
<tbody>
<tr>
<td>30:1</td>
<td>3.0 GPM</td>
<td>1/2 inch I.D.</td>
</tr>
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</table>

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.

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.

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 Impactor (1/2 inch diameter)
TEST SAMPLE: Blast cleaned steel, 2 coats of material
RESULT: 100 in.–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 #206275).
# TECHNICAL DATA

## C9578 SYSTEM COAL TAR EPOXY

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th><strong>Resin Type</strong></th>
<th>COAL TAR EPOXY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solvents</strong></td>
<td>Xylene, methanol</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Per Gallon, 10.2-11.0 lbs.</td>
</tr>
<tr>
<td></td>
<td>Per Liter, 1.2-1.3 kg.</td>
</tr>
<tr>
<td><strong>Solids</strong></td>
<td>By Weight, 75-79%</td>
</tr>
<tr>
<td></td>
<td>By Volume, 75-77%</td>
</tr>
<tr>
<td><strong>Volatile Organic Compounds</strong></td>
<td>&lt;250 g/l (2.1 lbs./gal.), as supplied</td>
</tr>
<tr>
<td><strong>Recommended Dry Film</strong></td>
<td>Thickness (DFT) Per Coat, 8-10 mils (200-250µ), minimum</td>
</tr>
<tr>
<td><strong>Wet Film to Achieve DFT</strong></td>
<td>10.5-13.5 mils (262.5-337.5µ)</td>
</tr>
<tr>
<td><strong>Theoretical Coverage at 1 mil DFT (25µ)</strong></td>
<td>1,203-1,235 sq. ft./gal. (29.6-30.4 m²/l)</td>
</tr>
<tr>
<td><strong>Practical Coverage at Recommended DFT (assumes 15% material loss)</strong></td>
<td>100-130 sq. ft./gal. (2.5-3.2 m²/l)</td>
</tr>
<tr>
<td><strong>Mixing Ratio</strong></td>
<td>4:1 base to activator by volume</td>
</tr>
<tr>
<td><strong>Induction Period</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Pot Life</strong></td>
<td>2 hours @ 80°F; 1 hour @ 100°F</td>
</tr>
<tr>
<td><strong>Dry Times at 70-80°F (21-27°C) and 50% rel. hum.</strong></td>
<td>Tack-free, 3-4 hours</td>
</tr>
<tr>
<td><strong>Recoat</strong></td>
<td>16-25 hours (If recoat time exceeds 48 hours, brush blast surface of previous coating to create a surface profile)</td>
</tr>
<tr>
<td><strong>Force Cure</strong></td>
<td>2 hours at 225°F (107°C)</td>
</tr>
<tr>
<td><strong>Dry Heat Resistance</strong></td>
<td>140°F (60°C)</td>
</tr>
<tr>
<td><strong>Maximum Immersion Temperature</strong></td>
<td>120°F (49°C)</td>
</tr>
<tr>
<td><strong>Shelf Life</strong></td>
<td>12 months, both components (do not store in temperature above 135°F)</td>
</tr>
<tr>
<td><strong>Safety Information</strong></td>
<td>Contains No lead has been deliberately added</td>
</tr>
<tr>
<td><strong>Warning!</strong></td>
<td>FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. MAY CAUSE CANCER. HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. POISON. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIRLINE REPIRATORS. USERS SHOULD WEAR GLOVES AND PROTECTIVE CLOTHING. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.</td>
</tr>
</tbody>
</table>

* Activated material

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

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