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PRODUCT DATA SHEET

SP-8889

DESCRIPTION: **SP-8889** is a variation of SP-8888[®] that allows application with Regular Airless Spray equipment. The properties are similar to SP-8888[®], based on the latest Novolac Technology that produces a highly dense crosslinked coating for high temperature service in the Oil and Gas Industry (cathodic disbonding resistance up to 150°C / 302°F).

ADVANTAGES:

- 100% Solids – No VOCs.
- Isocyanate free.
- Excellent adhesion to grit blasted steel surfaces, Fusion Bond Epoxy and FRP.
- Excellent resistance to high temperature cathodic disbonding up to 150°C (302°F).
- Ideal for areas where Plural Component Airless Spray equipment cannot be used.

USES:

- Exterior coating of pipelines for high temperature service.

APPLICATION:

- Spray Grade: Airless Spray 56:1 minimum pump ratio. Remove the pump's suction tube and place the lower pump assembly in a 5-gallon material pail. Hoses should be ½" ID maximum (no longer than 100 ft.) and ending with a 10 ft., 3/8" ID whip hose.
- Tip Size: 0.0523-0.527 reversible tip.
- Brush or roller for touch-up or repairs of small areas.

CLEANING MATERIALS:

- SP-100 Equipment Wash
- SP-110 Tool Cleaner

RECOMMENDED FILM THICKNESS: 30 mils (0.75 mm) minimum DFT



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- SURFACE PREPARATION:**
(Steel Substrate)
- **Cleanliness** : Near White
 - **Standards** : NACE 2, Sa 2½ (Swedish Scale, ISO 8501-1)
: SSPC SP-10 (Steel Structures Painting Council)
 - **Profile** : 2.5 mils minimum to 5.0 mils maximum
(62 microns to 127 microns)

- RE-COAT INTERVAL:**
- @ 25°C (77°F) - Maximum: 3 Hours
 - @ 50°C (122°F) - Maximum: 20 Minutes
 - @ 60°C (140°F) - Maximum: 8 Minutes
- If the maximum re-coat interval is exceeded, the surface must be abraded before application of the additional coat.
 - Large areas: abrasive blast to SSPC SP-7 “Brush-off blast cleaning”.
 - Small areas [<205 sq.cm. (31.78 sq. in.)]: can be sanded using medium grit (80-100) carborundum cloth.

MIXING RATIO: By Volume: 3 Parts Base to 1 Part Hardener

HANDLING PROPERTIES:

Pot Life (100 gm mass @ 25°C / 77°F) 30 minutes
Dry Time (ASTM D-1640) (25°C / 77°F)
Accept to Touch Time 3 Hours
Dry Hard Time 6 Hours

Ambient Temperature Minimum 10°C (50°F)

Substrate Temperature..... The acceptable substrate temperature (metal temperature) range for application of SP-8889 is 10°C–100°C (50°F-212°F). Preheating the substrate is required if the substrate to be coated is below 10°C (50°F). The substrate temperature must be minimum of 3°C (5°F) above the dew point temperature before proceeding with the coating application.



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HANDLING PROPERTIES (cont):

Storage / Shelf Life Store in a cool, dry, well-ventilated area at temperatures between 5°C (41°F) and 40°C (104°F). Keep the lids sealed. The Shelf Life is a maximum of 24 months in unopened containers.

LIQUID PROPERTIES:

BASE

HARDENER

Appearance.....	Dark Brown Viscous Liquid.	Amber Mobile Liquid.
Solids Content (%)	100%	100%
Specific Gravity (ASTM D-1475)....	1.42 ± 0.03	1.03 ± 0.03
Colour after Mixing.....	Brown	
Coverage (Theoretical).....	Base & Hardener Mixed: 1604 (ft ² /U.S. Gallon/mil) 39.0 (m ² /Litre/25 microns)	

PHYSICAL / MECHANICAL / ELECTRICAL PROPERTIES:

Adhesion to Steel:

Dry Adhesion (Pull-off Strength) (PSI) (ASTM D-4541-95-A4) (25°C / 77°F) (Self-Alignment Adhesion Tester, Type IV).....	>4300
Wet Adhesion (Hot Water Soak) (CSA Z245.20-02, Clause 12.14, 28 Days) (75°C / 167°F)	Rating #1
Cathodic Disbonding Test (mm) (CSA Z245.20-02, Clause 12.8) (Modified to 28 days at 95°C / 203°F).....	6.5
(Modified to 28 days at 135°C / 275°F).....	9.4
Flexibility (° PPD) (CSA Z245.20-02, Clause 12.11) (25°C / 77°F).....	1.00
Flexibility (° PPD) (CSA Z245.20-02, Clause 12.11) (0°C / 32°F).....	0.75
Flexibility (° PPD) (CSA Z245.20-02, Clause 12.11) (-30°C / -22°F).....	0.50
Hardness (Shore D) (ASTM D-2240-91) (25°C / 77°F).....	85
Impact (Joules) (CSA Z245.20-02, Clause 12.12) (28-35 mils DFT Panel) (25°C / 77°F).....	4.20
Impact (Joules) (CSA Z245.20-02, Clause 12.12) (28-35 mils DFT Panel) (0°C / 32°F).....	3.50
Impact (Joules) (CSA Z245.20-02, Clause 12.12) (28-35 mils DFT Panel) (-30°C / -22°F).....	2.00

SAFETY: Read the Material Safety Data Sheets before use.

EFFECTIVE DATE: June 24, 2005