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## PRODUCT DATA SHEET

**SP-2832**

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**DESCRIPTION:** SP-2832 is a 100% solids technologically advanced epoxy coating for use in the Oil and Gas Industry. It has superior anti-corrosive properties on the exterior of steel pipelines for above and below ground service.

**ADVANTAGES:**

- 100% Solids - No VOCs
- High build single coat application.
- Isocyanate free.
- Excellent resistance to high temperature cathodic disbonding up to 65°C (149°F).
- Excellent adhesion to grit blasted steel surfaces, fusion bond epoxy, liquid epoxy, and urethane coatings.
- Conventional high-pressure airless application.

**USES:**

- Coating of pipe, valves and fittings.
- Girth-weld coatings.
- Rehabilitation of existing pipelines.
- Tank lining.

**APPLICATION:**

- Spray Grade: Airless Spray System Graco 56:1 or higher is recommended. Reversible Tips are suggested. Tip Size: .021 - .035.
- Brush Grade: Brush or Roller.

### MATERIAL TEMPERATURE FOR AIRLESS SPRAY APPLICATION:

- The temperature of the Base and Hardener should be between 30°C-35°C (86°F-98°F) prior to mixing.
- After mixing the two components, allow the mixed material five (5) minutes “induction period or sweat in time” before use.

**CLEANING MATERIALS:**

- SP-100 Equipment Wash
- SP-110 Tool Cleaner
- SP-120 Internal Storage Lubricant

All information, recommendations, and test performance results herein were obtained in a controlled environment and SPC makes no claim that the data and tests accurately represent all environments and specific project specification requirements. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating. SPC products are sold with the understanding that the purchaser or user is solely responsible for determining their suitability for any purpose, and that the purchaser or user assumes all risks and liability associated with the use of the product. No guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. The information herein is not to be copied, used in evidence, released for publication, or public distribution without written permission from Specialty Polymer Coatings.



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- SURFACE PREPARATION:** (Steel Substrate)
- Cleanliness : Near White
  - Standards : NACE 2, Sa 2½ (Swedish Scale)  
: SSPC SP-10 (Steel Structures Painting Council)
  - Profile : 62.5 microns minimum to 125 microns maximum  
(2.5 mils to 5.0 mils)

- MIXING RATIO:**
- Brush Grade & Spray Grade, By Volume: 4.87 Parts Base to 1 Part Hardener.
  - Materials are packaged in exact ratio.

- FILM THICKNESS:**
- Wet: 0.50 mm minimum to 1.25 mm maximum (20 mils to 50 mils).  
Recommended average 0.625 mm (25 mils).
  - Dry: 0.50 mm minimum to 1.25 mm maximum (20 mils to 50 mils).  
Recommended average 0.625 mm (25 mils).

- RE-COAT INTERVAL:**
- @ 25°C (77°F) Maximum: 4 Hours
  - @ 100°C (212°F) Maximum: 20 Minutes
  - **SP-2832** is a single coat application product. However, if repair is required and the maximum re-coat interval is exceeded, roughening of the surface is required using a medium grit (80-100) carborundum cloth for small areas to ensure inter-coat adhesion. For larger areas, brush-off blast as per SSPC SP-7 or NACE 4.

### HANDLING PROPERTIES:

Pot Life [100 gm (3.5 oz) mass @ 35°C (95°F) material temperature] ..... 30 Minutes

Dry Time (ASTM D-1640) [0.75 mm (30 mils) coating thickness @ 25°C (77°F)]

Touch Dry Time ..... 4 Hours

Dry Hard Time ..... 10-12 Hours

Substrate Temperature..... 10°C to 100°C (50°F to 212°F)

- Applications at temperatures at or below dew point require preheating of the substrate.

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

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**LIQUID PROPERTIES:**

**BASE**

**HARDENER**

Appearance.....	Light Green viscous liquid	Amber liquid
Solids Content (%) .....	100	100
Specific Gravity (ASTM D-1475) ....	1.80 ± 0.03	1.10 ± 0.03
Specific Gravity (ASTM D-1475) ....	Base & Hardener Mixed:	1.68 ± 0.03
Coverage (Theoretical) .....	Base & Hardener Mixed:	39 m <sup>2</sup> /Litre/25 microns [1604 ft <sup>2</sup> /U.S. Gallon/mil]

**PHYSICAL / MECHANICAL / ELECTRICAL PROPERTIES:**

Adhesion to Steel:

Dry Adhesion (Pull-off Strength) [MPa (PSI)] (ASTM D-4541-95-A4) (Self-Alignment Adhesion Tester, Type IV) [25°C (77°C)] .....	>17.24 (2500)
Wet Adhesion (Hot Water Soak) (CSA-Z245.20-06, Clause 12.12) [28 Days @ 75°C (167°F)] .....	Rating # 2-3
Cathodic Disbonding Test (mm Radius) (CSA-Z245.20-06, Clause 12.8) [28 Days @ 65°C (149°F)] .....	6.5
Flexibility (°PPD) (CSA-Z245.20-06, Clause 12.11) [40°C (104°F)] .....	1.14
Flexibility (°PPD) (CSA-Z245.20-06, Clause 12.11) [30°C (86°F)] .....	0.97
Flexibility (°PPD) (CSA-Z245.20-06, Clause 12.11) [21°C (70°F)] .....	0.97
Flexibility (°PPD) (CSA-Z245.20-06, Clause 12.11) [0°C (32°F)] .....	0.48
Flexibility (°PPD) (CSA-Z245.20-06, Clause 12.11) [-30°C (-22°F)] .....	0.47
Hardness (Shore D) (ASTM D-2240-91) [25°C (77°F)] .....	70
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [0°C (32°F)] .....	1.5 (1.1)
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [25°C (77°F)] .....	1.5 (1.1)
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [-30°C (-22°F)] .....	1.5 (1.1)
Penetration (ASTM G17-88, 3 Days) [100°C (212°F)] .....	Passed – No Penetration
Taber Abrasion (ASTM D-4060-01) (CS 17 Wheel, 5000 Cycles) [21°C (70°F)] .....	Average Weight Loss 355.13 mg

**SAFETY:** Read the Material Safety Data Sheets before use.

**EFFECTIVE DATE:** October 24, 2016

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## BRUSH GRADE COATING KITS

### COLOUR CHART

**Match Base & Hardener Based on Colour Coded Dots Below.**  
**Mixing Ratio By Volume: 4.87 Parts Base to 1 Part Hardener.**

<u>SIZE</u>	<u>COLOUR</u>	<u>VOLUME</u>	
		<u>BASE</u>	<u>HARDENER</u>
0.50 Litres	PINK 	0.4149 Litres	0.0851 Litres
0.75 Litres	FL GREEN 	0.6223 Litres	0.1277 Litres
0.90 Litres	FL YELLOW 	0.7466 Litres	0.1534 Litres
1.00 Litres	RED 	0.8296 Litres	0.1704 Litres
1.25 Litres	PURPLE 	1.0370 Litres	0.2130 Litres
1.50 Litres	YELLOW 	1.2445 Litres	0.2555 Litres
1.75 Litres	ORANGE 	1.4518 Litres	0.2982 Litres
2.00 Litres	BLACK 	1.6592 Litres	0.3408 Litres
2.25 Litres	BLUE 	1.8667 Litres	0.3833 Litres
2.50 Litres	GREEN 	2.0741 Litres	0.4259 Litres
2.75 Litres	WHITE 	2.2815 Litres	0.4685 Litres
Note: FL = Fluorescent			