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## PRODUCT DATA SHEET

**SP-98130**

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**DESCRIPTION:** **SP-98130** is a two component high performance lining based on phenolic epoxy novolac polymer designed to resist various chemicals and corrosive gases at high temperatures and pressures. **SP-98130** can be used as a corrosion resistant exterior coating for pipelines, and as an internal lining for tanks, separation vessels and pipes containing crude oil, fresh or salt water, hydrogen sulphide, carbon dioxide and associated hydrocarbon gases at wet temperatures to 150°C (302°F) and pressures to 1000 psi.

**ADVANTAGES:** 100% Solids - No VOCs.  
Service Temperature: Wet: 150°C (302°F) Dry: 200°C (392°F).  
High Build, one-coat application, no intercoat adhesion problems associated with multi-coat systems.  
Excellent anti-corrosion properties.  
High abrasion resistance.

**USES:** Exterior coating for pipelines.  
Internal lining for crude oil storage tanks, separation tanks or vessels.  
Internal lining for pipes, spools, valves, and pumps.  
Protective lining for sewer and waste treatment plants.

**APPLICATION:** Brush Grade: Brush or Roller.  
Spray Grade: Graco Hydra-Cat - Tip Size: .019 - .031

**CLEANING MATERIALS:** SP-100 Equipment Wash  
SP-110 Tool Cleaner  
SP-120 Internal Storage Lubricant



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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** : 62.5 microns minimum to 125 microns maximum  
(2.5 mils to 5.0 mils)

**MIXING RATIO:** Brush Grade or Spray Grade: By Volume: 4 Parts Base to 1 Part Hardener.

**RECOMMENDED DRY FILM THICKNESS:**

750 to 1000 microns (30 to 40 mils).

Depends upon application; consult with your SPC Representative.

**RE-COAT INTERVAL:**

	<u>15°C (59°F)</u>	<u>25°C (77°F)</u>	<u>35°C (86°F)</u>	<u>45°C (113°F)</u>
Minimum Time:	4.0 Hours	2.0 Hours	0.75 Hour	0.5 Hours
Maximum Time:	16 Hours	8.0 Hours	4.0 Hours	1.5 Hours

**SP-98130** is a one-coat application product, but it may be necessary to correct film thickness deficiencies or repair damage.

Sweep blasting of the surface is required if the maximum re-coat interval is exceeded. Small areas  $\leq 316$  sq. cm. ( $\leq 49$  sq. in.) may be sanded using a medium grit (80-100) carborundum cloth. All dust from the sanding or blast roughening must be removed from the surface prior to the application of the coating.



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### HANDLING PROPERTIES:

Pot Life [100 gm (3.5 oz.) mass @ 25°C (77°F)] ..... 55 Minutes  
Dry Time (ASTM D1640) [750 microns (30 mils) coating thickness @ 25°C (77°F)]  
Touch Dry Time ..... 3.5 Hours  
Dry Hard Time..... 7.0 Hours

Substrate Temperature: Exterior pipeline coating application: The acceptable substrate (metal surface) temperature range for the application of **SP-98130** is 10°C (50°F) to 100°C (212°F). Preheating of the substrate is required if the surface to be coated is below 10°C (50°F)  
Internal lining application: The acceptable substrate (metal surface) temperature range for the application of **SP-98130** is 15°C (59°F) to 50°C (122°F). Preheating of the substrate is required if the surface to be coated is below 15°C (59°F).  
The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature before proceeding with the coating operation.

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:

	<b><u>BASE</u></b>	<b><u>HARDENER</u></b>
Appearance .....	Tan Viscous Liquid	Amber Liquid.
Solids Content (%) .....	100	100
Specific Gravity (ASTM D1475) .....	1.47 ± 0.03	1.06 ± 0.03
Specific Gravity (ASTM D1475) .....	Base & Hardener Mixed: 1.39 0.03	
Coverage (Theoretical).....	Base & Hardener Mixed: 39.0 m <sup>2</sup> /Litre/25 microns [1604 ft <sup>2</sup> /U.S. Gallon/mil]	

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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### PHYSICAL / MECHANICAL / ELECTRICAL PROPERTIES:

#### Adhesion to Steel:

Dry Adhesion (Pull-off Strength) [MPa (psi)] (ASTM D4541-95-A4) (Self-Alignment Adhesion Tester, Type IV) [25°C (77°F)] .....	>41.3 (>6000)
Hot Adhesion [MPa (psi)] (ASTM D4541-95-A4) Self-Alignment Adhesion Tester, Type IV (Pull-off Adhesion conducted on Hot Coating Surface Temperature) [130°C (266°F)] .....	>6 (>1000)
Wet Adhesion (Hot Water Soak) (CSA-Z245.20-06, Clause 12.14, 28 Days) [75°C (167°F)] .....	Rating #1
Cathodic Disbonding Test [Average Radius (mm)] (CSA-Z245.20-06, Clause 12.8, System 1A, 28 Days @ 95°C (203°F)).....	< 6.5
Cathodic Disbonding Test [Average Radius (mm)] (CSA-Z245.20-06, Clause 12.8, System 1A, 28 Days @ 130°C (266°F)).....	< 7.0
Flexibility ( PPD) (CSA-Z245.20-06, Clause 12.11) [25°C (77°F)] .....	1.00
Flexibility ( PPD) (CSA-Z245.20-06, Clause 12.11) [0°C (32°F)] .....	0.75
Flexibility ( PPD) (CSA-Z245.20-06, Clause 12.11) [-15°C (5°F)].....	0.50
Hardness (Shore D) (ASTM D2240-91) [25°C (77°F)] .....	89
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [25°C (77°F)].....	4.40 (3.25)
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [0°C (32°F)] .....	3.05 (2.25)
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [-15°C (5°F)] .....	2.37 (1.75)

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

**EFFECTIVE DATE:** October 25, 2016

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