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## PRODUCT DATA SHEET

**SP-9800**

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**DESCRIPTION:** **SP-9800** is a two component ambient cure epoxy Gas Transmission Pipe Flow Efficiency coating. **SP-9800** meets the requirements of API Specification RP 5L2.

**ADVANTAGES:**

- 100% Solids – No VOCs.
- Good flexibility.
- Excellent water resistance.
- Excellent anti-corrosion protection during storage life.

**USES:**

- Coating for Internal Gas Transmission Pipelines to improve gas flow and corrosion protection.

**APPLICATION:**

- Graco Hydra-Cat Airless Spray, tip size .015-.021 and/or Spinning Head.
- Application method and equipment may vary from plant to plant; contact an SPC Technical Representative for assistance.

**CLEANING MATERIALS:** SP-100 Equipment Wash

**SURFACE PREPARATION:**

**(Steel Substrate)**

- The degree of surface preparation will affect the performance of the coating. Prior to application of the coating, ensure that the steel surface is free of oil, grease, and any other surface contaminants.
- Abrasive blast cleaning is the preferred method.
- **Cleanliness** : Near White
- **Standards** : NACE 2, Sa 2½ (Swedish Scale, ISO 8501-1)  
: SSPC SP-10 (Steel Structures Painting Council)
- **Profile** : 25 microns minimum to 50 microns maximum.  
(1.0 mils to 2.0 mils)



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**MIXING RATIO:** By Volume: 2 Parts Base to 1 Part Hardener.

**RECOMMENDED DRY FILM THICKNESS:** 75 microns minimum to 125 microns maximum.  
(3.0 mils to 5.0 mils.)

### HANDLING PROPERTIES:

Pot Life [100 gm (3.5 oz) mass @ 25°C (77°F) Ambient Temperature] ..... 45 minutes  
Dry Time (ASTM D1640) [25°C (77°F) Ambient Temperature]  
Touch Dry Time ..... 2 Hours  
Hard Dry Time..... 7 Hours

Substrate Temperature..... The acceptable substrate (metal surface) temperature range for the application of **SP-9800** is 10°C (50°F) – 50°C (122°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>ACTIVATOR</u></b>
Appearance .....	Red Liquid	Beige Liquid
Solids Content (%) .....	100	100
Specific Gravity (ASTM D1475) .....	1.55 ± 0.03	1.30 ± 0.03
Specific Gravity (ASTM D1475) .....	Base & Activator Mixed: 1.47 ± 0.03	
Coverage (Theoretical) .....	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.



**PRODUCT DATA SHEET**

**SP-9800**

<b>Performance of SP-9800 as per API RP 5L2 Specification</b>			
<b>Test</b>	<b>Criterion</b>	<b>Test Method</b>	<b>Results</b>
<b>Salt Spray</b>	500 Hrs.	ASTM B117	Pass
<b>Water Immersion</b>	No blistering over 6.3 mm (0.25 in.) from edges.	Saturated CaCO <sub>3</sub> solution, RT, 21 days	Pass
<b>W/M Immersion</b>	No blistering over 6.3 mm (0.25 in.) from edges.	1:1 by volume, water and methanol, RT, 5 days	Pass
<b>Stripping</b>	Coating should not be removed.	60 degree cut	Pass
<b>Bend</b>	13 mm (0.50 in.) diameter & larger, the panel shall show no flaking, loss of adhesion or cracking of the coating.	180° around conical or cylindrical mandrel. ASTM D522	Pass
<b>Adhesion</b>	No lifting.	225 squares, 1.6 mm (0.06 in.) side length	Pass
<b>Hardness</b>	> 94 Buchholz ~ H pencil hardness.	DIN 53 153	Pass
<b>Gas Blistering</b>	No blistering.	Dry nitrogen gas, 1200 PSI, 25°C (77°F). 24 Hrs., release >5 seconds	Pass
<b>Abrasion</b>	> 23 Coefficient of Abrasion.	ASTM D968, Method A	Pass
<b>Hydraulic Blistering</b>	No blistering.	Saturated CaCO <sub>3</sub> solution, 2400 PSI, 25°C (77°F) 24 Hrs., quick pressure release	Pass

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**PRODUCT DATA SHEET**

**SP-9800**

<b>Performance of SP-9800 After Post Heating to 260°C (500°F) As per API RP 5L2 Specification</b>			
<b>Test</b>	<b>Criterion</b>	<b>Test Method</b>	<b>Results</b>
<b>Salt Spray</b>	500 Hrs.	ASTM B117	Pass
<b>Water Immersion</b>	No blistering over 6.3 mm (0.25 in.) from edges.	Saturated CaCO3 solution, RT, 21 days	Pass (No Blistering)
<b>W/M Immersion</b>	No blistering over 6.3 mm (0.25 in.) from edges.	1:1 by volume, water and methanol, RT, 5 days	Pass (No Blistering)
<b>Stripping</b>	Coating should not be removed.	60 degree cut	Pass
<b>Bend</b>	13 mm (0.50 in.) diameter & larger, the panel shall show no flaking, loss of adhesion or cracking of the coating.	180° around conical or Cylindrical mandrel. ASTM D522	Pass
<b>Adhesion</b>	No lifting.	225 squares, 1.6 mm (0.06 in.) side length	Pass
<b>Hardness</b>	> 94 Buchholz ~ H pencil hardness.	DIN 53 153	Pass (Pencil Hardness H-2H)
<b>Gas Blistering</b>	No blistering.	Dry nitrogen gas, 1200 PSI, 25°C (77°F). 24 Hrs., Release >5 seconds	Pass
<b>Abrasion</b>	> 23 Coefficient of Abrasion.	ASTM D968, Method A	Pass (A=38.5)
<b>Hydraulic Blistering</b>	No blistering.	Saturated CaCO3 solution, 2400 PSI, 25°C (77°F) 24 Hrs., quick pressure release	Pass

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

**EFFECTIVE DATE:** October 24, 2016

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