



CORPORATE HEAD OFFICE  
Specialty Polymer Coatings  
#104, 20529 - 62nd Avenue, Langley, BC, CANADA V3A 8R4  
Tel: (604) 514-9711 • Fax: (604) 514-9722

U.S.A. HEAD OFFICE  
Specialty Polymer Coatings USA, Inc  
22503 FM521, Angleton Texas, 77515, USA  
Tel: (281) 595-3530 • Fax: (281) 595-3717

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## PRODUCT DATA SHEET

## SP-5885 EPOXY COATING

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**DESCRIPTION:** Specialty Polymer Coatings, Inc.'s SP-5885 is a two-component surface tolerant epoxy coating that cures at ambient temperatures. It is a high performance corrosion protection coating with chemical resistance properties.

**ADVANTAGES:**

- High build properties.
- Self-priming.
- Surface tolerant.

**USES:**

- Lining for tanks, piping and structures containing salt water, jet fuel, aliphatic hydrocarbons and associated products.
- Corrosion resistant coating for structural steel, storage tanks, and equipment in refineries, pulp and paper mills and chemical plants.

**APPLICATION:**

- Airless Spray: Graco 45:1 or 56:1 or equivalent.  
Tip Size: 0.021-0.025".  
Thinning: 5% by volume with SP-140 Epoxy Thinner. \*
- Air Spray: Air cap with E tip and needle. Moisture trap should be used between air supply and pressure pot.  
Thinning: 10-15% by volume with SP-140 Epoxy Thinner. \*
- Brush or Roller: Low nap rollers.  
Thinning: 5% by volume with SP-140 Epoxy Thinner. \*

\* Guide Only: Amount of thinning affected by temperature conditions.

**CLEANING MATERIALS:**

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



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### RECOMMENDED

#### DRY FILM THICKNESS:

- Immersion Service - two (2) coats of 8-10 mils (DFT) per coat. An optional third coat can be applied if the client's specification requires a total of 30 mils DFT, or a single coat of 20-25 mils DFT can be applied.
- Non-Immersion Service - as per client's specification.

#### SURFACE PREPARATION: (Steel Substrate)

- Cleanliness: The surface to be treated shall be dry and free of grease, oil, dust, abrasive material or any other contaminants. Remove grease and oil with a suitable detergent. Remove salts and other contaminants by high-pressure fresh water cleaning.
- Immersion Service: Abrasive Blast to SSPC SP-10 (Near White).
- Non-Immersion Service: Abrasive Blast to SSPC SP-6 (Commercial blast) or to SSPC SP-3 or SSPC SP-11 where blasting is not possible.

#### RE-COAT INTERVAL:

- 25°C (77°F) - Minimum: 8 Hours  
- Maximum: 4 Days
- Sweep blasting of the surface is required to ensure inter-coat adhesion 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 re-coat application.

#### MIXING RATIO:

By Volume: 1 Part Base to 1 Part Hardener.

#### PRIMER COAT:

None – SP-5885 is self-priming.



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### HANDLING PROPERTIES:

Pot Life (25°C / 77°F) .....	6 Hours
Dry Time [ASTM D-1640 @ 25°C (77°)]	
Touch Dry Time .....	3 Hours
Hard Dry Time .....	12-16 Hours
Full Cure .....	7 Days
Minimum Application Temperature.....	10°C (50°F) **
Minimum Coating Temperature.....	15°C (59°F)
Ideal Temperature Range for Surface and Coating....	15-25°C (59-77°F)
Substrate Temperature.....	The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature to avoid condensation before proceeding with the coating application.
Relative Humidity .....	<ul style="list-style-type: none"><li>• Maximum 80%</li><li>• Preferable: 40-60%</li></ul>
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.

\*\* Winter Grade Cure can be used to facilitate application at temperatures below 10°C (50°F). Consult with an SPC Technical Representative.

### LIQUID PROPERTIES:

Appearance.....	Buff
Volume Solids Content (%) .....	84
VOCs.....	137 g/litre
Coverage (Theoretical).....	272 ft. <sup>2</sup> /5 mils 25 m <sup>2</sup> /100 microns



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**PHYSICAL PROPERTIES:**

Tests done on Sand Sweep Steel Surfaces:

Wet Adhesion (Hot Water Soak) (CSA-Z245.21-98, Clause 12.14, 28 Days) (Modified to 75°C / 167°F) .....	Rating #1
Cathodic Disbonding Test (mmr) (CSA-Z245.21-98 Clause 12.8) (Modified to 25°C / 77°F, 28 Days, 1.5 volts) .....	12.87
Salt-Spray Test (ASTM B117 and ASTM D-1654 for rating) (1,000 Hours) ...	Excellent #7 Scribed Areas #10 Unscribed Areas

**SAFETY:** Read the Material Safety Data Sheets before use.**NOTE:** All epoxy coatings will change colour, lose gloss and chalk on exterior exposure. However, the protective properties of the material will not be affected.**EFFECTIVE DATE:** September 22, 2005