



CORPORATE HEAD OFFICE
Specialty Polymer Coatings
#101, 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

PRODUCT DATA SHEET

SP-1088 URETHANE TOP COAT

DESCRIPTION: Specialty Polymer Coatings, Inc.'s **SP-1088** is a two-component Acrylic Aliphatic Urethane Top Coat.

ADVANTAGES:

- UV Protection
- Excellent resistance to seawater.
- Good chemical resistance.
- Above average heat resistance. Dry Heat: 150°C (302°F).
- Superior surface wetting.

USES: **SP-1088** is recommended as a topcoat for **SP-5885 SF** and other SPC epoxy coatings where UV protection, colour and gloss retention are primary considerations.

APPLICATION:

A) Spray Grade:

- Airless Spray: Graco 30:1 Pump or equivalent - Tip Size: 0.021-0.023".
Thinning: 5% by volume with SP-150 Polyurethane 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-150 Polyurethane Thinner. *

B) Brush Grade:

- Brush or Roller: Low nap rollers.
Thinning: 5% by volume with SP-150 Polyurethane Thinner. *

* Note: Guide only, the amount of thinning is affected by temperature conditions.

CLEANING MATERIALS: SP-100 Equipment Wash



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SURFACE PREPARATION:

- The coated surface to be top-coated shall be dry and free of grease, oil, dust, abrasive material or any other contaminants. Grease and oil shall be removed with a suitable detergent. Salts and other contaminants shall be removed by high-pressure fresh water cleaning.
- For improved adhesion, **SP-1088** should be applied when the undercoat is still tacky. On cured undercoats, adhesion will be enhanced by sweep-blasting the substrate.

MIXING RATIO: By Volume: 4 Parts Base to 1 Part Hardener.

RECOMMENDED DRY FILM THICKNESS: 50 – 75 microns (2.0 – 3.0 mils)

- RE-COAT INTERVAL:**
- 25°C (77°F) - Minimum: 1 Hour
- Maximum: 2 Days
 - Sweep blasting of the surface is required to ensure inter-coat adhesion if the maximum re-coat interval is exceeded. Small areas ≤ 316 sq. cm. (≤ 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.

UNDERCOAT: Yes, **SP-5888 SF** and other SPC epoxy coatings.

HANDLING PROPERTIES:

Pot Life [200 gm (7.05 oz.) mass @ 25°C (77°F)]	5 Hours
Dry Time (ASTM D1640) [25°C (77°F)]	
Touch Dry Time	15 Minutes
Dry Hard Time	3 Hours
Full Cure Time	28 Days
Minimum Application Temperature.....	5°C (41°F)
Minimum Coating Temperature.....	15°C (59°F)

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HANDLING PROPERTIES (cont.):

- 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 operation.
- Relative Humidity
 - Maximum 80%
 - Preferable 40-60%
- Storage / Shelf Life Store in a cool, dry, well-ventilated area away from all incompatibles at temperatures between 5°C (41°F) and 40°C (104°F). Keep the container lids sealed when not in use. The Shelf Life is a maximum of 24 months from the date of manufacture if the materials are in unopened containers.

LIQUID PROPERTIES:

- Appearance Glossy Porcelain White
- Solids Content (%) 46 ± 3% By Volume (varies with colour)
- Coverage (Theoretical)..... Base & Hardener Mixed: 18.0 m²/Litre @ 25 microns DFT
[738 ft²/U.S. Gallon @ 1.0 mils DFT]

SAFETY: Read the Material Safety Data Sheets before use.

EFFECTIVE DATE: October 21, 2016 Rev. 2

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