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PRODUCT DATA SHEET

SP-9887 GF

DESCRIPTION: **SP-9887 GF** is a Glass Flake reinforced Novolac epoxy coating for use on tanks, pipes, steel structures, offshore platforms and subsea structures. **SP-9887 GF** cures to form a coating film with overlapping layers of glass flakes that resists water and chemical permeation. **SP-9887 GF** can be used as a lining for storage tanks, ballast tanks, separation vessels, sewage tanks and digesters, waste troughs, and pipelines containing crude oil.

ADVANTAGES:

- 100% Solids – No VOCs.
- High abrasion resistance.
- Excellent chemical, solvent and water resistance.
- High build, one-coat application.
- Service Temperature - Wet: 150°C (302°F); Dry: 220°C (428°F)
- Excellent acid resistance

USES:

- Internal lining for storage tanks, ballast tanks, separation vessels, sewage tanks and digesters, waste troughs, and pipelines containing crude oil.
- Offshore platforms, subsea structures and pilings.
- Lining in sewage or waste treatment plants.

APPLICATION: Spray Grade: Graco Hydra-Cat – Tip Size: .019 - .031

CLEANING MATERIALS:

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

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)

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

RECOMMENDED FILM THICKNESS:

1.00 to 2.00 mm (40 to 80 mils)

Depends upon application; consult with your SPC Representative.

RE-COAT INTERVAL:

| | | | |
|--------------|--------------|-------------|--------------|
| Temperature | 25°C (77°F) | 35°C (86°F) | 50°C (122°F) |
| Minimum Time | 2 Hours | 1 Hour | 15 Minutes |
| Maximum Time | 6 Hours | 2 Hours | 30 Minutes |

HANDLING PROPERTIES:

Pot Life [100 gm (3.5 oz.) mass @ 25°C (77°F)..... 35 Minutes

Dry Time (ASTM D1640) [1.0 mm (40 mils) coating thickness @ 25°C (77°F)]

Touch Dry Time 2 Hours

Dry Hard Time..... 6 Hours

Substrate Temperature.... The acceptable substrate (metal surface) temperature range for the application of SP-9887 GF 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.



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| LIQUID PROPERTIES: | <u>BASE</u> | <u>HARDENER</u> |
|-------------------------------------|---|------------------------|
| Appearance | Tan Liquid. | Amber Liquid. |
| Solids Content (%) | 100 | 100 |
| Specific Gravity (ASTM D1475) | 1.477 ± 0.03 | 1.049 ± 0.03 |
| Specific Gravity (ASTM D1475) | Base & Hardener Mixed: 1.39 | |
| Coverage (Theoretical) | Base & Hardener Mixed: 39.0 m ² /Litre/25 microns [1604 ft ² /U.S. Gallon/mil] | |

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)] | 30.24 (4389) |
| Wet Adhesion (Hot Water Soak) (CSA-Z245.20-06, Clause 12.14, 28 Days) [Modified to 95°C (203°F)] | Rating #1 |
| Cathodic Disbonding Test [Average Radius (mm)] (CSA-Z245.20-06, Clause 12.8, System 1A, modified to 28 days @ 125°C (257°)..... | 3.40 |
| Flexibility (PPD) (CSA-Z245.20-06, Clause 12.11) [25°C (77°F)] | 0.50 |
| Flexibility (PPD) (CSA-Z245.20-06, Clause 12.11) [0°C (32°F)] | 0.50 |
| Flexibility (PPD) (CSA-Z245.20-06, Clause 12.11) [-17°C (1.4°F)] | 0.50 |
| Hardness (Shore D) (ASTM D2240-91) [25°C (77°F)] | 84 |
| Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [25°C (77°F)] | 4.00 (3.00) |
| Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [0°C (32°F)] | 3.00 (2.21) |
| Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause 12.12) [-17°C (1.4°F)] | 2.00 (1.50) |

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CHEMICAL RESISTANCE [One year (365 days) immersion @ ambient temperatures]

| | |
|--------------------------------------|---------------------|
| Nitric Acid, 10% solution..... | No change observed. |
| Sulphuric Acid, 40% solution | No change observed. |
| Hydrochloric Acid, 10% solution..... | No change observed. |
| Sodium Hydroxide, 50% solution | No change observed. |
| Distilled Water | No change observed. |
| Xylene..... | No change observed. |
| Ethyl Acetate | No change observed. |
| Ethanol | No change observed. |
| Diesel Fuel..... | No change observed. |

SAFETY: Read the Material Safety Data Sheets before use.

EFFECTIVE DATE: October 24, 2016

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