



CORPORATE HEAD OFFICE
Specialty Polymer Coatings
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U.S.A. HEAD OFFICE
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PRODUCT DATA SHEET

SP-1386[®] DW

DESCRIPTION: SP-1386[®] DW is a two-component polyurethane coating formulated for use as a lining for potable water storage tanks and as an interior lining for pipes carrying potable water. SP-1386[®] DW is a 100% solids coating, high build single coat application forming a monolithic membrane with excellent resistance to moisture.

CERTIFICATION: Certified by NSF International in accordance with NSF/ANSI Standard 61 for use on the interior of potable water storage tanks, pipes and valves.

- ADVANTAGES**
- 100% Solids – No VOCs.
 - Good flexibility with >50% elongation.
 - Excellent water resistance.
 - Good abrasion resistance.
 - High build one-coat application.

- USES:**
- Lining for potable water tanks and pipelines.

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

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



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SURFACE PREPARATION:

- (Steel Substrate)**
- **Primer** : No primer required.
 - **Cleanliness** : Near White
 - **Standards** : NACE 2, Sa 2½ (Swedish Scale, ISO 8501-1)
SSPC SP-10 (Steel Structures Painting Council)
 - **Profile** : 75 microns minimum to 125 microns maximum
(3.0 mils to 5.0 mils)
- (Concrete Substrate)**
- **Cleanliness** : Remove laitance and other surface contaminants by grit blasting or mechanical scarification. The concrete must be dry with a moisture content of less than 4% measured with a moisture meter. All cracks or joints repaired with one-component polyurethane sealant must have NSF certification; products such as Sikaflex 1A or Vakum 45 are compatible with **SP-1386[®] DW**.
The procedure for coating concrete potable water tanks is to use the spray-roll-spray technique. Spray a thin coat (3.0-5.0 mils) of **SP-1386[®] DW** over the prepared concrete surface. Then roll the thin coat of **SP-1386[®] DW** with a short nap roller forcing the wet coat to penetrate into the concrete. Follow the first coat with an additional spray application of **SP-1386[®] DW** to the specified thickness. Care must be taken to stay within the specified overcoat times for this product.

MIXING RATIO: Brush Grade and Spray Grade: By Volume: 3 Parts Base to 1 Part Activator.

RECOMMENDED FILM THICKNESS:

- **Pipelines** : **Wet:** 0.50 mm minimum to 1.25 mm maximum (20 mils to 50 mils)
Dry: 0.50 mm minimum to 1.25 mm maximum (20 mils to 50 mils)
- **Tank Lining** : **Wet:** 0.50 mm minimum to 1.25 mm maximum (20 mils to 50 mils)
Dry: 0.50 mm minimum to 1.25 mm maximum (20 mils to 50 mils)



PRODUCT DATA SHEET

SP-1386® DW

RE-COAT INTERVAL:

- Spray Grade: @ 25°C (77°F) Maximum: 12 Hours
- Brush Grade: @ 25°C (77°F) Maximum: 12 Hours
- **SP-1386® DW** is a one-coat application system. However, if there are areas below the specified thickness and the coating has cured beyond the specified re-coat window, roughening of the surface is necessary to ensure inter-coat adhesion. 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. Areas ≥ 316 sq. cm (49 sq. in.) must be blast roughened to a profile of 75 microns (3.0 mils) minimum to 125 microns (5.0 mils) maximum.

HANDLING PROPERTIES:

	<u>Brush Grade</u>	<u>Spray Grade</u>
Pot Life [25°C (77°F) Ambient Temperature]	15 Minutes	7 Minutes
Pot Life [40°C (104°F) Spray Grade Base Temperature].....	N/AP	2 Minutes
Dry Time (ASTM D1640) [25°C (77°F) Ambient Temperature]		
Tack-free Time	3 Hours	3 Hours
Dry Hard Time.....	9 Hours	9 Hours
Dry Time (ASTM D1640) [55-60°C (131-140°F) Spray Grade Base Temperature]		
Touch Dry Time	N/AP	70 Minutes
Dry Hard Time.....	N/AP	6 Hours
Full Cure.....	4 Days	4 Days

Ambient Temperature..... Both Brush & Spray Grade: 0°C to 100°C (32°F to 212°F)

Substrate Temperature..... The acceptable substrate temperature range for the application of **SP-1386® DW** is 1°C (33°F) to 100°C (212°F). Preheating of the substrate is required if the surface to be coated is below 1°C (33°F). Relative Humidity prior to and during the application of **SP-1386® DW** must be 80% or less. 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 20°C (68°F) and 35°C (95°F). Keep the lids sealed. **DO NOT FREEZE THE ACTIVATOR.** The Shelf Life is a maximum of 12 months in unopened containers.



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LIQUID PROPERTIES:**BASE****ACTIVATOR**

Appearance	Grey Liquid	Amber Liquid
Solids Content (%)	100	100
Specific Gravity (ASTM D1475)	1.36 ± 0.03 (Spray Grade)	1.22 ± 0.03 (Spray Grade)
Specific Gravity (ASTM D1475)	1.36 ± 0.03 (Brush Grade)	1.22 ± 0.03 (Brush Grade)
Specific Gravity (ASTM D1475)	Base & Activator Mixed:	1.32 ± 0.03 (Spray Grade)
Specific Gravity (ASTM D1475)	Base & Activator Mixed:	1.32 ± 0.03 (Brush Grade)
Coverage (Theoretical).....	39.0 m ² /Litre/25 microns [1604 ft ² /U.S. Gallon/mil]	

PHYSICAL 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)]	>13 (>2000)
Wet Adhesion (Hot Water Soak) (CSA-Z245.20-06, Clause 12.14) [40°C (104°F)]	Rating #1
Cathodic Disbonding Test [Average Radius (mm)] [CSA-Z245.20.06, Clause12.8, System 1A, 7 Days @ 25°C (77°F)]	9.78
Elongation (%) (ASTM D522) [25°C (77°F)]	66
Flexibility (° PPD) (CSA-Z245.20-06, Clause 12.11) [25°C (77°F)]	3
Hardness (Shore D) (ASTM D2240-91) [25°C (77°F)]	60
Impact [Joules (ft-lbf)] (CSA-Z245.20-06, Clause12.12) [25°C (77°F)]	>8.0 (>5.9)

SAFETY: Read the Material Safety Data Sheets before use.**REFER TO COLOUR CHART AT END OF PRODUCT DATA SHEET.****EFFECTIVE DATE:** November 10, 2010














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BRUSH GRADE COATING KITS

COLOUR CHART

**Match Base & Hardener Based on Colour Coded Dots Below.
 Mixing Ratio By Volume: 3 Parts Base to 1 Part Activator.**

<u>SIZE</u>	<u>COLOUR</u>	<u>VOLUME</u>	
		<u>BASE</u>	<u>HARDENER</u>
0.50 Litres	PINK 	0.3750 Litres	0.1250 Litres
0.75 Litres	FL GREEN 	0.5625 Litres	0.1875 Litres
0.90 Litres	FL YELLOW 	0.6750 Litres	0.2250 Litres
1.00 Litres	RED 	0.7500 Litres	0.2500 Litres
1.25 Litres	PURPLE 	0.9375 Litres	0.3125 Litres
1.50 Litres	YELLOW 	1.1250 Litres	0.3750 Litres
1.75 Litres	ORANGE 	1.3125 Litres	0.4375 Litres
2.00 Litres	BLACK 	1.5000 Litres	0.5000 Litres
2.25 Litres	BLUE 	1.6875 Litres	0.5625 Litres
2.50 Litres	GREEN 	1.8750 Litres	0.6250 Litres
2.75 Litres	WHITE 	2.0600 Litres	0.6900 Litres
Note: FL = Fluorescent			