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## PRODUCT DATA SHEET

## SP-4888<sup>®</sup> DAMP SURFACE COATING

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**DESCRIPTION:** SP-4888<sup>®</sup> Damp Surface Coating is a two-component epoxy coating developed specifically for application on wet or damp steel surfaces. In addition, it may be applied on dry steel surfaces with equal corrosion protection properties. When applied as directed, SP-4888<sup>®</sup> Damp Surface Coating is an excellent corrosion protection coating with superior adhesion and resistance to cathodic disbonding at temperatures up to 80°C (176°F).

**ADVANTAGES:**

- 100% Solids – No VOCs.
- Isocyanate free.
- Excellent adhesion to wet, damp or dry grit-blasted steel surfaces, Fusion Bond Epoxy (FBE) and Fiber Reinforced Plastic (FRP).
- Excellent resistance to high temperature cathodic disbonding at temperatures up to 80°C (176°F).

**USES:**

- Exterior coating of pipelines, structures or other steel surfaces that may be wet or damp due to the environment or as a result of atmospheric condensation.

**APPLICATION:**

- Brush Grade: Brush or Roller

**CLEANING MATERIALS:**

- SP-100 Equipment Wash
- SP-110 Tool Cleaner

**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 88 microns maximum  
(2.5 mils to 3.5 mils)
- **Minimum Substrate Temperature** 5°C (41°F)

Note: No rust formation shall be allowed on the pipe prior to the coating application. If rust formation occurs, the surface shall be re-blasted. If conditions are such that light flash rusting of the substrate may occur before it can be coated, the surface shall be wetted to maintain dampness prior to the coating application.



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

**RECOMMENDED FILM THICKNESS:**

- Wet: 0.75 mm (30 mils) minimum to 1.25 mm (50 mils) maximum
- Dry: 0.75 mm (30 mils) minimum to 1.25 mm (50 mils) maximum.

**RE-COAT INTERVAL:**

@ 25°C (77°F) Maximum 16 Hours

- Blast roughening of the surface is required if the maximum re-coat interval is exceeded. Small areas  $\leq 0.23$  sq. m (0.25 sq. ft.) shall be roughened using a carborundum cloth, sandpaper, file or surface grinder. All dust from the sanding or blast roughening must be removed from the surface prior to the application of the coating.

**HANDLING PROPERTIES:**

Pot Life [100 gm (3.5 oz) mass @ 25°C (77°F)] ..... 40 minutes

Dry Time (ASTM D1640) [25°C (77°F)]

Touch Dry Time ..... 3 Hours

Dry Hard Time ..... 7 Hours

Ambient Temperature..... Minimum 10° (50°F)

Storage / Shelf Life ..... Store in a cool, dry, well-ventilated area at temperatures between 5°C (41°F) and 40°C (104°F). Keep in tightly sealed containers when not in use. The Shelf Life of SP-4888<sup>®</sup> is a maximum of 24 months from the date of manufacture if the materials are in unopened containers.

**LIQUID PROPERTIES:**

**BASE**

**HARDENER**

Appearance.....

Brown Viscous Liquid

Amber Liquid

Solids Content (%).....

100

100

Specific Gravity (ASTM D1475).....

1.59 ± 0.03

1.008 ± 0.03

Specific Gravity (ASTM D1475).....

Base & Hardener Mixed:

1.39 ± 0.03

Colour after Mixing.....

Brown

Coverage (Theoretical).....

Base & Hardener Mixed

39.0 m<sup>2</sup>/Litre/25 microns  
[1604 ft<sup>2</sup>/U.S. Gallon/mil]



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**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)].....	19.3 (2800)
Wet Adhesion (Hot Water Soak) (CSA-Z245.20-10, Clause 12.14, 28 Days) [75°C (167°F)].....	Rating #1
Cathodic Disbonding Test [Average Radius (mm)] (CSA-Z245.20-10, Clause 12.8, System 1A):	
[Modified to 28 Days @ 80°C (176°F)] (Wet Surface) .....	4.4
[Modified to 28 Days @ 80°C (176°F)] (Damp Surface) .....	4.0
[Modified to 28 Days @ 80°C (176°F)] (Dry Surface).....	4.1
[Modified to 28 Days @ 22°C (72°F)] (Wet Surface) .....	1.5
[Modified to 28 Days @ 22°C (72°F)] (Damp Surface) .....	1.9
[Modified to 28 Days @ 22°C (72°F)] (Dry Surface).....	1.8
Flexibility (° PPD) (CSA-Z245.20-10, Clause 12.11) [25°C (77°F)].....	1.00
Flexibility (° PPD) (CSA-Z245.20-10, Clause 12.11) [0°C (32°F)].....	0.75
Flexibility (° PPD) (CSA-Z245.20-10, Clause 12.11) [-30°C (-22°F)] .....	0.50
Hardness (Shore D) (ASTM D2240-91) [25°C (77°F)].....	80
Impact [Joules (ft-lbf)] (CSA-Z245.20-10, Clause 12.12) [25°C (77°F)] .....	3.0(2.21 )
Impact [Joules (ft-lbf)] (CSA-Z245.20-10, Clause 12.12) [0°C (32°F)] .....	2.0 (1.48)
Impact [Joules (ft-lbf)] (CSA-Z245.20-10, Clause 12.12) [-30°C (-22°F)].....	1.50 (1.10)

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

**WEBSITE:** [www.spc-net.com](http://www.spc-net.com)

**EFFECTIVE DATE:** June 24, 2014 Rev.3