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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.  
Below ground corrosion control on pipe, piping assemblies, valve assemblies, pipe components and girth welds.  
Retains its corrosion protection properties when also applied on dry steel surfaces.

**APPLICATION:** Brush Grade: Brush or Roller

**CLEANING MATERIALS:** SP-100 Equipment Wash  
SP-110 Tool Cleaner

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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### **SURFACE PREPARATION: (Steel Substrate)**

**Cleanliness** : Near White  
**Standards** : NACE 2, Sa 2½ (Swedish Scale, ISO 8501-1)  
: SSPC SP-10 (The Society for Protective Coatings)  
**Profile** : 62.5 microns minimum to 125 microns maximum  
(2.5 mils to 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.

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

### **RECOMMENDED FILM THICKNESS:**

**Standard Corrosion Protection:** 0.50 mm minimum to 1.25 mm (20 mils to 50 mils).

### **BACKFILLING:**

Mechanical stress including backfilling or lowering in, shall not be applied to the coating until it has reached a Shore D Hardness  $\geq 75$ .

### **COMPATIBILITY WITH OTHER ANTI CORROSION COATINGS:**

SP-4888<sup>®</sup> is compatible with all SPC and fusion bonded epoxy (FBE) anti-corrosion coatings. For compatibility with other anti-corrosion coatings, please consult with SPC.



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**SP-4888® DAMP SURFACE 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 .....	1 Hour 20 Minutes
Dry Hard Time .....	7 Hours
Ambient Temperature.....	Minimum 5° (41°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® 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]

**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

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**SP-4888® DAMP SURFACE COATING**

**PHYSICAL / MECHANICAL / ELECTRICAL PROPERTIES: (cont.)**

[Modified to 28 Days @ 22°C (72°F)] (Dry Surface).....	1.8
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)

**CHEMICAL RESISTANCE (ASTM G20) (90 Days immersion @ ambient temperatures):**

Ammonium Chloride, 10% solution.....	No change observed.
Bio Diesel .....	No change observed.
Calcium Chloride, 10% solution.....	No change observed.
Chromic Acid 5% solution.....	No change observed.
Diesel.....	No change observed.
Ethanol.....	No change observed.
Gasoline.....	No change observed.
Hydrochloric Acid, 5% solution.....	No change observed.
Mineral Oil .....	No change observed.
Monoethylene Glycol .....	No change observed.
Naphtha .....	No change observed.
Nitric Acid, 5% solution.....	No change observed.
Potassium Chloride, 10% solution.....	No change observed.
Sodium Carbonate, 10% solution.....	No change observed.
Sodium Chloride, 10% solution .....	No change observed.
Sodium Silicate solution.....	No change observed.
Sodium Hydroxide, 10% solution .....	No change observed.
Sulphuric Acid, 5% solution .....	No change observed.
Zinc Sulphate, 10% solution.....	No change observed.

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

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

**EFFECTIVE DATE:** October 24, 2016 Rev.5

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# APPENDIX “A”



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## SP-4888<sup>®</sup> BRUSH GRADE

### CURING TABLE

SUBSTRATE TEMPERATURE		DRY HARD TIME
(°C)	(°F)	0.50-0.75 mm (20-30 mils) DFT As per ASTM D-1640
50	122	2 hrs.
40	104	3.5 hrs.
30	86	5.5 hrs.
25	77	7 hrs.
20	68	10 hrs.
10	50	17 hrs.
5	41	35 hrs.

Substrate: 12 mm (0.5 inch) Thick Steel Panels

Material Temperature: Base: 25°C (77°F)  
Hardener: 25°C (77°F)

**Note #1:** Before applying the coating on the panels, the panels were dampened with water and then the coating was applied. The panels were kept at 5 C, 10 C, 20 C, 30 C, 40 C and 50°C temperature for testing.

**Note #2:** The information above is to serve as a guide only. The test results were compiled under laboratory-controlled conditions. Field results may vary due to variable conditions such as radiant heat loss and the cooling effect of wind.

Date: August 31, 2015

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