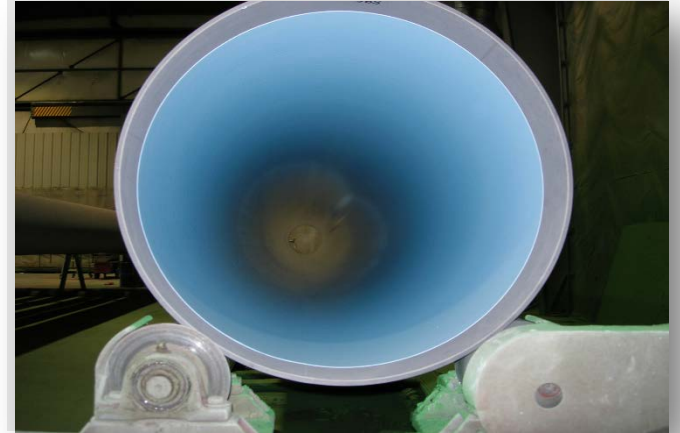


100% Solids Potable Water Epoxy

SP- 7888® is a 100% solids, two-component high performance epoxy coating specifically formulated for use as a single coat interior lining and exterior coating system for potable water storage facilities, pipe and treatment plants. The 100% solids, VOC free, high build, single coat applied coating cures to form a tough, durable, non-toxic, monolithic membrane with superior corrosion and water resistance.



Applications: SP- 7888® can be used for potable water storage facilities, pipe and treatment plants and all valves, pumps and fittings related to potable water equipment, coating for dam gates and penstocks.



Features & Benefits

- Excellent adhesion to steel surfaces, Fusion Bond Epoxy (FBE)
- 100% solids, zero VOCs
- Excellent fresh and salt water resistance
- Good flexibility
- Good acid and abrasion resistance
- High build one-coat application
- NSF 61 certification to 120 mils DFT



Qualifications: Certified by NSF International in accordance with NSF/ANSI Standard 61 for use of the interior of potable water storage tanks of 1,892 Liters (500 U.S. Gallons) and greater, and valves and pipes with diameters greater than 20 centimeters (8”).

SP-7888® meets the requirements of ANSI/AWWA Standard C210, Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines.

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Technical Data

Solid Content	100%		
Colour:	Base: White	Hardener: Blue	Mixed Material: Blue
Theoretical Coverage:	1.0 m ² /Litre/mm (1604 ft ² /US Gallon/mil)		
Recommended Thickness:	0.50 mm to 2.0 mm maximum (20 mils to 80 mils)		
For potable water service:	0.4 mm minimum to 3 mm maximum (16 mils to 120 mils)		
Specific Gravity:	Base: 1.60±0.03	Hardener: 1.00±0.03	Mixed Material: 1.45±0.03
Mixing Ratio by Volume:	3 parts Base to 1 part Hardener		
Spray & Brush Grade:	3 parts Base to 1 part Hardener		

Typical Performance Properties

Service Temperature	Up to 65°C (149°F)
Adhesion to Steel	@ 25°C (77°F): >20 MPa > (3000 psi) (ASTM D4541)
Wet adhesion to steel (Hot water soak resistance)	28 days @ 75°C (167°F): Rating #1 (CSA-Z245.20)
Cathodic Disbondment resistance	28 days @ 65°C (150°F): @ - 1.5 Volts: 10 mmR (CSA-Z245.20)
Flexibility (*PPD)	@ 25°C (77°F): 1.5*PPD (CSA-Z245.20)
Elongation	6.0% (ASTM D522 Type B)
Hardness	25°C (77°F): 75 Shore D (ASTM D2240)

Surface Preparation

Steel Substrate:	Primer:	Self-priming
	Cleanliness:	Near-White. Surfaces to be treated shall be completely dry and free of grease, oil, soil, dust, abrasive material or other contaminants at the time the coating is applied. Remove grease and oil with a suitable detergent. Remove salts and other contaminants by high-pressure fresh water cleaning.
	Standards:	NACE No. 2/SSPC SP-10, SA 2.5 (ISO 8501-1,
	Profile:	62.5 microns minimum to 125 microns maximum (2.5 mils to 5.0 mils).

Coating Application

Application Equipment	Spray Grade:	Plural Component Graco Hydra-Cat Airless Spray; Tip Size: .019-.031;
	Brush Grade:	Brush or Roller
Mixing & Thinning:	Pre-mixing not recommended for spray grade. Do not thin.	
Application Conditions	Ambient Temperature:	-40°C to 50°C (-40°F to 122°F)
	Substrate Temperature:	Minimum Substrate Temperature: 10°C (50°F).
	Temperature:	To avoid condensation, the substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature. SP-7888® is capable of curing down to 5°C (41°F) but the Dry Time will be extended. Refer to Curing Table.
	Material Temperature:	Drum Temperature - Spray Application: • Base: 50°C – 55°C (122°F – 131°F) • Hardener: 25°C – 35°C (77°F – 95°F) In-Line Temperature - Spray Application: • Base: 65°C – 75°C (149°F – 167°F) • Hardener: 25°C – 35°C (77°F – 95°F) Mixed Temperature - Spray Application: • 65°C – 75°C (149°F – 167°F) Brush Application for Striping / Coating Repairs: The ideal coating temperature range for mixing and application is from 15°C to 25°C (59°F to 77°F).

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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Pot Life and Cure Times

Pot Life:**Brush Grade:** @ 25°C (77°) 1 hour, 30 minutes**Spray Grade:** Base @ 55°C (131°F) & Hardener @ 35°C (95°F) 15 minutes**Recoat Interval:**

@ 25°C (77°) @ 50% RH Maximum 5 hours

SP-7888® is a one-coat application product. However, to correct film thickness deficiencies, coating damage or for application to concrete after the re-coat interval of the initial thin coat has been exceeded, the surface must be sweep blasted or sanded to ensure inter-coat adhesion. Large areas >316 sq. cm (>49 sq. in.) must be sweep blasted. 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.

Dry Time: (ASTM D 1640): @ 25°C (77°F)

Touch Dry: 5 hours

Hard Dry: 10 hours

Full Cure: 4 days

Storage and Shelf Life

Store in a cool, dry, well-ventilated area 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. DO NOT FREEZE.

SP-7888® R.G. Curing Table

SUBSTRATE TEMPERATURE	DRY HARD CURING TIME	
	Brush Grade	Spray Grade
50°C (122°F)	2 hours 45 minutes	2 hours 15 minutes
40°C (104°F)	3 hours 30 minutes	3 hours
30°C (86°F)	6 hours 30 minutes	6 hours
20°C (68°F)	13 hours	12 hours
10°C (50°F)	27 hours	24 hours

Substrate: 12 mm (0.5 in) Thick Steel Panels; Brush Grade Material Temperature: Base and Hardener: 25°C (77°F); Spray Grade Material Temperature: Base: 60°C (140°F), Hardener: 40°C (104°F); Dry Film Thickness: -0.50 mm (20 mils) as per ASTM D1640.
Note: SPC does not recommend post-curing or force-curing SP-7888® at temperatures above 50°C (122°F). 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.

Safety: Refer to SPC's Safety Data Sheet prior to use. Carefully read and follow all safety instructions on labels and packaging. Handle and store material with care in accordance to the Safety Data Sheet. Follow and observe any applicable local or national laws and regulations.

Effective Date: March 10, 2017.

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