



SELECTION & SPECIFICATION DATA

Generic Type	Novolac Lining
Description	A “State of the Art” two component coating system based on novolac chemistry. The environmentally friendly, 100% solids, two component coating system can be easily applied through spray, brush, or roller and cures to a highly cross-linked coating with excellent chemical, solvent and water immersion resistance.
Features	<ul style="list-style-type: none">• 100% solids• Excellent resistance to high temperature cathodic disbonding and autoclave conditions up to 150°C (302°F)• Excellent abrasion and impact resistance• High build in a single coat• Excellent Chemical Resistance• Good flexibility
Typical Uses	Can be used as a lining for storage tanks and pipelines containing crude oil, diluted crude, various hydrocarbons, sewage, process water, acids, alkalis, and salt solutions.
Color	Brown (0200) White (0800)
Dry Film Thickness	30 - 40 mils (762 - 1016 microns) DFT Depends upon application. Consult with your SPC Representative.
Solids Content	By Volume 100% +/- 0%
Theoretical Coverage Rate	1604 ft ² /gal at 1.0 mils (39.4 m ² /l at 25 microns) 53 ft ² /gal at 30.0 mils (1.3 m ² /l at 750 microns) 40 ft ² /gal at 40.0 mils (1.0 m ² /l at 1000 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 5 g/l
Dry Temp. Resistance	Continuous: 302°F (150°C)
Specific Gravity	Base: 1.47 ± 0.03 Hardener: 1.06 ± 0.03 Mixed Material: 1.39 ± 0.03

SUBSTRATES & SURFACE PREPARATION

Steel	Cleanliness: NACE 2/SSPC SP-10, SA 2.5 (ISO 8501-1) Profile: 62.5 microns (2.5 mils) – 125 microns (5.0 mils) The Substrate Temperature must be a minimum of 3°C (5°F) above the dew point temperature before proceeding with the blasting operation.
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SP-9888[®] Brush

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PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Adhesion to Steel (Pull Off Strength) (ASTM D4541)	28 MPa (>4000 psi) @ 25°C (77°F)
Adhesion to Steel (Hot Water Soak) (CSA-Z245.20)	28 days @ 95°C (203°F): Rating #1 120 days @ 75°C (167°F): Rating #1
Cathodic Disbondment Resistance (CSA Z245.20-10, Clause 12.8m System 1A)	28 days @ 120°C (248°F): 6.0 mmR (CSA Z245.20-10, Clause 12.8m System 1A, modified to 28 Days @ 120°C (248°F) Using an autoclave, test pressure: 50 p
Flexibility (CSA-Z245.20)	1.50°PPD @ 25°C (77°F) 1.0°PPD @ 0°C (32°F) 0.75°PPD @ -30°C (-22°F)
Impact Resistance (CSA-Z245.20)	5.0 Joules (3.69 ft-lbf) @ 25°C 3.5 Joules (2.58 ft-lbf) @ 0°C (32°F) 2.5 Joules (1.84 ft-lbf) @ -30°C (-22°F)
Shore D Hardness (ASTM D2240)	25°C (77°F): 85 ± 3

Chemical Resistance | No change in various chemical solutions (ASTM G20, 90 day immersion, R.T.)

MIXING & THINNING

Mixing	Spray Grade: Agitation of the Part A component is recommended during the preheating process and during application to ensure a uniform heat throughout the base portion. Component Details for Colors: Brown (0200): The Base is Brown (0200) and the Hardener is Amber (0908) White (0800): The Base is White (0800) and the Hardener is Amber (0908)
Thinning	Do Not Thin
Ratio	3:1 Base to Hardener, by Volume
Pot Life	Brush Grade: 40 minutes 200 gms mass @ 25°C (77°F)

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Brush Grade	Brush or Roller
Spray Grade	<ul style="list-style-type: none">• Plural Component Spray Equipment:• Graco XP-70 or equivalent• Tip Size:: 0.019-0.031 0.031• Heated hose bundle consisting of 3/8" ID base and 1/4" ID hardener with a solvent flush line.• Glycol heat trace or equivalent capable of 80°C (176°F)



APPLICATION CONDITIONS

Condition	Surface	Ambient
Minimum	50°F (10°C)	-40°F (-40°C)
Maximum	122°F (50°C)	122°F (50°C)

The recommended substrate (metal surface) temperature range for the application of SP-9888[®] is 15°C (59°F) to 50°C (122°F) with a minimum of 10°C (50°F).

Preheating of the substrate is required if the surface to be coated is below 10°C (50°F). The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature before proceeding with the coating operation.

Recommended Spray Preheat Temperature in Drum/Pail:

Base: 75°C (167°F) to 90°C (194°F)

Hardener: 15°C (59°F) to 30°C (86°F) (Ambient-typically not heated)

Preheating of the base material is required to balance the viscosity of base and hardener. In cases of extreme weather conditions the recommended temperatures may change, please consult your SPC representative.

CURING SCHEDULE

Surface Temp.	Dry Hard (Spray Grade)	Dry Hard (Brush Grade)
50°F (10°C)	15 Hours	16 Hours
68°F (20°C)	7 Hours	8 Hours
77°F (25°C)	5 Hours	5.5 Hours
86°F (30°C)	4 Hours	4.5 Hours
104°F (40°C)	3 Hours	3.5 Hours
122°F (50°C)	1.5 Hours	2 Hours
140°F (60°C)	50 Minutes	65 Minutes
158°F (70°C)	20 Minutes	25 Minutes
176°F (80°C)	7 Minutes	8 Minutes
194°F (90°C)	5 Minutes	6 Minutes

Note: This information 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 effects of wind.

Recoat Interval	Base 80°C (176°F) and Hardener 20°C (68°F) Max 24 hours @ 20°C (68°F) @ 15% RH Max 3 hours @ 25°C (77°F) @ 50% RH
	Recoat Interval may vary depending upon the substrate temperature and humidity, contact your SPC Representative. Recoating is best achieved while initial coat is still tacky. Re-Blasting of the surface is required if the maximum recoat interval is exceeded. The minimum recoat surface preparation interval is 6 hours @ 25°C (77°F). Profile depth shall be the same as previously stated. Small areas ≤ 19.35 sq.cm. (≤3 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.
Return to Service	24 hours @ 25°C (77°F) 0.60 mm (25ml) Coating Thickness (ASTM D 1640)

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CURING SCHEDULE

Touch Dry	<u>Brush Grade:</u> 120 minutes @ 25°C (77°F)
	<u>Spray Grade:</u> 120 minutes @ 25°C (77°F)
	0.60 mm (25ml) Coating Thickness (ASTM D 1640)

CLEANUP & SAFETY

Cleanup | Carboline Thinner 2 or SP-100 Equipment Wash

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

PACKAGING, HANDLING & STORAGE

Shelf Life | Maximum of 24 months from date of manufacture if the materials are in unopened containers.

Storage | Store in a cool, dry, well-ventilated area at temperatures between 5°C (41°F) and 50°C (122°F). Keep in a tightly sealed container when not in use. DO NOT FREEZE.

Packaging - Brush Grade

0.5 Liter (0.13 Gallon) Kit
Part A: 0.38 liters (0.10 gallons)
Part B: 0.12 liters (0.03 gallons)

1 Liter (0.26 Gallon) Kit
Part A: 0.75 liters (0.2 gallons)
Part B: 0.25 liters (0.06 gallons)

Packaging - Cartridges

1000 mL (0.26 Gallon) (Spray Grade)
Part A: 750 mL (0.20 gallons)
Part B: 250 mL (0.06 gallons)

Packaging - Spray Grade

80 Liter (21.1 Gallon) Kit
Part A: 60 liters (15.9 gallons)
Part B: 20 liters (5.3 gallons)

800 Liter (211.3 Gallon) Kit
Part A: 600 liters (158.5 gallons)
Part B: 200 liters (52.8 gallons)



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WARRANTY

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