



SELECTION & SPECIFICATION DATA

Generic Type	High-Temperature Novolac Pipeline Coating
Description	A “State of the Art” two-component coating which has been specifically formulated for high temperature pipelines. This product cures to a highly cross-linked coating with an excellent resistance to high temperature cathodic disbonding up to 150°C (302°F). This environmentally friendly, 100% solids, & Isocyanate free two component coating system is available in Brush Grade, Spray Grade and Repair Cartridges.
Features	<ul style="list-style-type: none">• Excellent resistance to high temperature cathodic disbonding up to 150°C (302°F)• Excellent adhesion to grit blasted steel surfaces, Fusion Bond Epoxy (FBE), Fiber Reinforced Plastic (FRP), Polyolefin (PP/PE) and HPCC• Service Temperature up to 150°C (302°F)• Excellent impact resistance; good flexibility• High build single coat application > 50 mils• 100% solids, Isocyanate free, environmentally friendly & safe• Easily applied by spray, brush, roller or cartridge <p>Meets or exceeds FBE coating performance requirements, as specified in Canadian (CSA Z245.20, CSA Z245.30), USA (NACE PR0394) and British20, (CW6) Standards.</p>
Typical Uses	Can be used as a coating and /or lining for pipes, valves and fittings, girth welds for buried or immersed services, slip bore and directional drilling applications.
Color	Red (0500)
Dry Film Thickness	30 - 50 mils (762 - 1270 microns) DFT 40 - 70 mils (1016 - 1778 microns) DFT Directional Drill & Mechanical Protection Depends on application. Consult with your SPC Representative.
Solids Content	By Volume 100%
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) 23 ft ² /gal at 70.0 mils (0.6 m ² /l at 1750 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 8 g/l Brush Grade: 7 g/L Repair Cartridge: 5 g/L
Dry Temp. Resistance	Continuous: 302°F (150°C)
Specific Gravity	Base: 1.47 ± 0.03 Hardener: 1.05 ± 0.03 Mixed Material: 1.37 ± 0.03

SP-8888[®] Spray

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Steel	Cleanliness: NACE No.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
FBE	Profile: 62.5 microns (2.5 mils) minimum

PERFORMANCE DATA

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

Test Method	Results
Adhesion to FBE (Hot Water Soak) (CSA-Z245.20, Clause 12.14)	28 days @ 95°C (203°F): Rating#1
Adhesion to Steel (Hot Water Soak) (CSA-Z245.20, Clause 12.14)	28 days @ 95°C (203°F): Rating#1 120 Days @ 75°C (167°F): Rating#1
Adhesion to Steel (Pull Off Strength) (ASTM D4541 Type IV)	28 MPa (>4000 psi)
Cathodic Disbondment Resistance (CSA-Z245.20, Clause 12.8, System 1A, modified)	28 days @ 20°C (68°F): 2.0 mmR 28 days @ 150°C (302°F): 7.67 mmR
Flexibility (CSA Z245.20, Clause 12.11)	0.75°PPD @ -30°C (-22°F)
Impact Resistance (CSA-Z245.20, Clause 12.12)	5.0 J (3.68 ft-lbf) @ 25°C (77°F) 3.0 J (2.2 ft-lbf) @ -30°C (-22°F)
Shore D Hardness	25°C (77°F): 85

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 Color: Red (0500): The Base is Red (0500) and the Hardener is Amber (0908)
Thinning	Do Not Thin
Ratio	Spray & Brush Grade: 3:1 Base to Hardener, by Volume
	Cartridge Grade: 2:1 Base to Hardener, by Volume
Pot Life	Brush Grade: 30 minutes 200 gm mass @ 25°C (77°F)
	Spray Grade: 2.25 minutes 200 gm mass Base: 70°C (158°F) Hardener: 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
Cartridge	Manual Dispenser
Spray Grade	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	212°F (100°C)	122°F (50°C)

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: 70°C (158°F) to 80°C (176°F)

Hardener: 20°C (68°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 (Brush Grade)	Dry Hard (Spray Grade)
50°F (10°C)	14 Hours	13 Hours
68°F (20°C)	5 Hours	4.5 Hours
86°F (30°C)	3.5 Hours	3 Hours
104°F (40°C)	2.45 Hours	2.5 Hours
122°F (50°C)	2 Hours	1.5 Hours
140°F (60°C)	60 Minutes	42 Minutes
158°F (70°C)	30 Hours	15 Minutes
176°F (80°C)	13 Minutes	7 Minutes
194°F (90°C)	5 Minutes	4.5 Minutes

0.50 mm (20 mils) DFT as per ASTM D-1640

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.

Backfilling Time | Shore D Hardness ≥80

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PRODUCT DATA SHEET



CURING SCHEDULE

Recoat Interval	Brush Grade: Max 3 hours @ 25°C (77°F) Max 10 minutes @ 80°C (176°F) Spray Grade: Max 3 hours @ 25°C (77°F) Max 5 minutes @ 80°C (176°F)
	@ 50% RH The recommended Recoat Intervals are general guidelines only. The Recoat intervals may vary significantly due to variable conditions including but not limited to, humidity, surface temperature, and product application temperature. Contact your SPC representative for assistance in determining minimum and maximum recoat intervals specific to your application.
Touch Dry	Spray Grade: 1 hour @ 25°C (77°F) Brush Grade: 75 minutes @ 25°C (77°F)
	0.60 mm (25ml) Coating Thickness

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 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.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A: 24 months Part B: 24 months Cartridge: 36 months
	From the 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 the lids sealed when not in use. DO NOT FREEZE.
Packaging - Brush Grade	0.5 Liter (0.13 gallons) 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)
	1.5 Liter (0.40 Gallon) Kit Part A: 1.13 liters (0.30 gallons) Part B: 0.37 liters (0.10 gallons)
	2 Liter (0.53 gallons) Kit Part A: 1.5 liters (0.40 gallons) Part B: 0.5 liters (0.13 gallons)
	2.5 Liter (0.66 gallons) Kit Part A: 1.88 liters (0.50 gallons) Part B: 0.62 liters (0.16 gallons)



PACKAGING, HANDLING & STORAGE

Packaging - Cartridges

- 450 mL (0.12 Gallon) (Cartridge Grade)**
 - Part A: 300 mL (0.08 gallons)
 - Part B: 150 mL (0.04 gallons)
- 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)

WARRANTY

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