



## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Modified Novolac Epoxy Coating
<b>Description</b>	<p>A specially formulated version of SP-3888<sup>®</sup> based on modified Novolac epoxy chemistry. This product is designed for the repairs of damaged Fusion Bond Epoxy (FBE) and other liquid applied pipeline coatings where quick drying and quick handling are required.</p> <p>It has an excellent high operating temperature capability and cathodic disbondment resistance up to 95°C (203°F). Available in 50ml and 450ml Repair Cartridge.</p>
<b>Features</b>	<ul style="list-style-type: none"><li>• Excellent resistance to cathodic disbonding up to 95°C (203°F)</li><li>• Excellent adhesion to grit blasted steel surfaces, Fusion Bond Epoxy (FBE), other epoxies and urethanes</li><li>• Fast Cure, quick handling and quick return to service</li><li>• Excellent chemical and water absorption resistance</li><li>• Excellent wetting properties</li><li>• High abrasion and impact resistance</li><li>• Easily applied by cartridge dispensers</li><li>• 100% solids, Isocyanate free, environmentally friendly &amp; safe</li></ul>
<b>Typical Uses</b>	<p>Designed to be used externally and/or internally for the repair of damaged corrosion and abrasion coatings such as FBE, liquid epoxy and polyurethanes as well as 3LPE &amp; PP.</p> <p>Also suitable as a direct to metal corrosion coating, internal lining or an ARO for slip bores and horizontal directional drills (HDD).</p>
<b>Color</b>	Grey (0700)
<b>Dry Film Thickness</b>	<p>20 - 50 mils (508 - 1270 microns) DFT</p> <p>Depends upon application. Consult with your SPC Representative</p>
<b>Solids Content</b>	By Volume 100%
<b>Theoretical Coverage Rate</b>	<p>1604 ft<sup>2</sup>/gal at 1.0 mils (39.4 m<sup>2</sup>/l at 25 microns)</p> <p>80 ft<sup>2</sup>/gal at 20.0 mils (2.0 m<sup>2</sup>/l at 500 microns)</p> <p>32 ft<sup>2</sup>/gal at 50.0 mils (0.8 m<sup>2</sup>/l at 1250 microns)</p> <p>Allow for loss in mixing and application.</p>
<b>VOC Values</b>	<b>As Supplied</b> : 4 g/L
<b>Dry Temp. Resistance</b>	Continuous: 203°F (95°C)
<b>Specific Gravity</b>	<p>Base: 1.46±0.03</p> <p>Hardener: 1.39±0.03</p> <p>Mixed Material: 1.44±0.03</p>

## SUBSTRATES & SURFACE PREPARATION

<b>Steel</b>	<p>Cleanliness: NACE No.2/SSPC SP-10, SA 2.5 (ISO 8501-1)</p> <p>Profile: 62.5 microns (2.5 mils) – 125 microns (5.0 mils)</p>
<b>FBE</b>	<p><b>FBE and other coating repairs:</b> Surface shall be roughened with sweep blasting, power or mechanical tool, or hand sanding depending on the size of the repair area. The coating's surface must be roughened until the gloss is entirely removed from the area being repaired.</p>

# SP-3888<sup>®</sup> Fast Cure

## PRODUCT DATA SHEET



### PERFORMANCE DATA

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

Test Method	Results
Adhesion to Fusion Bond Epoxy (CSA-Z245.20)	28 days @ 95°C (203°F): Rating #1
Adhesion to Steel (Hot Water Soak) (CSA-Z245.20)	28 days @ 75°C (167°F): Rating #1
Adhesion to Steel (Pull Off Strength) (ASTM D4541 Type IV)	>3000 psi (20.69 mpa) @ 25°C (77°F)
Cathodic Disbondment Resistance (CSA Z245.20, Clause 12.8)	28 days @ 95°C (203°F): 4.5 mmR
Dielectric Strength (ASTM D149)	400 volt/mils
Flexibility (CSA Z245.20, Clause 12.11)	0.5°PPD @ -30°C (-22°F)
Impact Resistance (CSA-Z245.20, Clause 12.12)	1.5 Joules (1.11 ft-lbf) @ -30°C (-22°F)
Shore D Hardness (ASTM D2240)	25°C (77°F): 85

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

### MIXING & THINNING

<b>Mixing</b>	Component Details for Color: Grey (0700): The Base is Grey (0700) and the Hardener is Amber (0908)
<b>Thinning</b>	Do Not Thin
<b>Ratio</b>	Cartridge Grade: 2:1 base to hardener, by volume
<b>Pot Life</b>	Cartridge Pot Life: 4 minutes 30 sec (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.

**Cartridge** | Manual Dispenser

### 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 application.

Base: 20°C (68°F) to 30°C (86°F)

Hardener: 20°C (68°F) to 30°C (86°F) (Ambient: typically not heated)

Preheating of the base and hardener materials is required for special applications.

In cases of extreme weather conditions the recommended temperatures may vary, please consult your SPC Representative.



## CURING SCHEDULE

Surface Temp.	Maximum Recoat Time	Touch Dry	Dry Hard
77°F (25°C)	15 Minutes	25 Minutes	100 Minutes

0.60 mm (25ml) coating thickness (ASTM D 1640)

Sweep blasting of the surface is required if the maximum re-coat interval is exceeded. Small areas ≤ 316 sq. cm. (≤ 49 sq. in.) may be sanded using a medium grit (80-100) carborundum cloth. All dust from sanding or blast roughening must be removed from the surface prior to the application of the coating.

**Backfilling Time** | Shore D Hardness ≥80

## 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** | A maximum of 24 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 in a tightly sealed container when not in use. DO NOT FREEZE.

**Packaging - Cartridges** | **50 mL (0.01 Gallon) (Cartridge Grade)**  
Part A: 33.3 mL (0.009 gallons)  
Part B: 16.7 mL (0.004 gallons)

## WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.