

**SELECTION & SPECIFICATION DATA**

**Generic Type** | Flexible novolac epoxy coating and lining

**Description** | Semstone 805 is a flexible epoxy polymer coating and lining providing a chemical, water and abrasion resistant barrier for steel and concrete. This versatile coating system was developed as a self-leveling, flexible chemical resistant coating and lining and can also be used as a high build coating and lining system with the addition of a third component. Semstone 805 is a 100% solids, low odor, two-component system applied either as a neat system (unfilled), a reinforced system, an aggregate-filled system or as an aggregate filled reinforced system. A bagged Part C thixotropic agent is added for high build applications. It is most often used with reinforcing fabric (#100) over expansion joints.

Consult Carboline's Technical Service Department for specific chemical resistance information.

**Features** |

- Highly Flexible
- Chemical Resistant
- Water Resistant
- Abrasion Resistant
- 100% Solids

**Color** | Gray

**Finish** | N/A

**Primer** | Semstone 110

**Dry Film Thickness** | 20 - 40 mils (0.5 - 1 mm) per coat

**Solids Content** | By Volume 99% +/- 2%

**Theoretical Coverage Rate** | 1588 ft<sup>2</sup>/gal at 1.0 mils (39.0 m<sup>2</sup>/l at 25 microns)  
 79 ft<sup>2</sup>/gal at 20.0 mils (1.9 m<sup>2</sup>/l at 500 microns)  
 40 ft<sup>2</sup>/gal at 40.0 mils (1.0 m<sup>2</sup>/l at 1000 microns)  
 Allow for loss in mixing and application.

**VOC Values** | **As Supplied** : 7 g/l

**Topcoats** | Topcoat selection will vary with service selection. Consult Carboline Technical Service.

**PERFORMANCE DATA**

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

Test Method	System	Results
Abrasion Resistance	Semstone 805	120 mg lost (CS17 wheels - 1000 cycle, 1000 gram)
Bond Strength (ASTM D4541)	Semstone 805 over concrete	Cohesive failure in concrete substrate (>350 psi)
Hardness (ASTM D2240)	Semstone 805 (neat)	55 Shore A
Tensile Elongation (ASTM D638)	Semstone 805 (neat)	100%
Tensile Strength (ASTM D638)	Semstone 805 (neat)	1050 psi

### MIXING & THINNING

**Mixing** | Mix each component separately; then combine and mix until uniform.

**Ratio** | 1.5:1 ratio by volume (Part A: Part B) supplied in 1-gal and 2-gal kits.

**Pot Life** | 30-45 min @75°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.

**Airless Spray** | This product may be applied using an airless spray unit in accordance with manufacturer's specifications, notched trowel, squeegee, brush or roller. It can be applied as a trowel/caulk grade or putty material with the addition of Part C thixotropic agent. Depending on expected service conditions application thickness may vary. Consult Carboline Technical Sales Representative for specific thickness recommendations. When applying as a high build system or to vertical surfaces, the addition of Part C is required.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	50°F (10°C)	20%
Maximum	90°F (32°C)	110°F (43°C)	110°F (43°C)	80%
Optimum	75°F (24°C)	70°F (21°C)	70°F (21°C)	50%

The temperature of the surface to be coated, and the ambient air temperature should be at least 50°F (10°C) during installation and curing. 24-hours before application, all materials (components A, B, and C, etc.) should be stored at 75-85°F (24-29°C) to facilitate handling.

### CLEANUP & SAFETY

**Cleanup** | Use Thinner 2 or acetone.

**Safety** | Read and follow all caution statements on this product data sheet and on the SDS for this product. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

### PACKAGING, HANDLING & STORAGE

**Packaging** | One Gallon Kit  
Part A: 0.61 gals  
Part B: 0.42 gals  
Two Gallon Kit  
Part A: 1.22 gals  
Part B: .79 gals

**Shelf Life** | Part A: 24 months  
Part B: 24 months

**Storage Temperature & Humidity** | Keep product tightly sealed in their original containers until ready for use. Store at 40-110°F, out of direct sunlight.

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## **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.