

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 ft²/gal at 1.0 mils (39.0 m²/l at 25 microns)
79 ft²/gal at 20.0 mils (1.9 m²/l at 500 microns)
40 ft²/gal at 40.0 mils (1.0 m²/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.

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 to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. 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. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.