

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Three-component, vinyl ester patching mortar
<b>Description</b>	Semstone 800 Series Patching Mortar exhibits excellent bond strength and chemical resistance to most acids, alkalis, salt solutions and oils. Due to its non-sag, lightweight consistency, it is used to permanently patch and repair vertical and overhead voids.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent mechanical strengths</li> <li>• Rapid hardening</li> <li>• Excellent bond strength assures superior adhesion</li> <li>• Excellent chemical resistance</li> <li>• Easily installed to clean, sound substrate</li> <li>• Factory proportioned packaging ensures consistent high quality and simplified mixing</li> <li>• Easy to use, fast-setting, labor saving system</li> </ul>
<b>Color</b>	Light gray in color when mixed.
<b>Dry Film Thickness</b>	30 - 125 mils (762 - 3175 microns) per coat
<b>Typical Uses</b>	<ul style="list-style-type: none"> <li>• Filling voids and bugholes in precast concrete and other masonry surfaces</li> <li>• Bonding mortar on stone, concrete and plaster</li> <li>• Repairing damaged concrete and filling narrow cracks in concrete</li> <li>• Used in conjunction with 700 and 800 Series Coatings and Linings applications</li> </ul>
<b>Solids Content</b>	By Volume 96%
<b>Coverage Rate</b>	One unit of 800 Series Patching Mortar will cover approximately 830 cu.in. (13,604 cu.cm.)
<b>Theoretical Coverage Rate</b>	1548 ft <sup>2</sup> /gal at 1.0 mils (38.0 m <sup>2</sup> /l at 25 microns) 52 ft <sup>2</sup> /gal at 30.0 mils (1.3 m <sup>2</sup> /l at 750 microns) 12 ft <sup>2</sup> /gal at 125.0 mils (0.3 m <sup>2</sup> /l at 3125 microns) Allow for loss in mixing and application.
<b>VOC Value(s)</b>	Per EPA Method 24: 0.24 lbs/gal (24 g/l)  These are nominal values and may vary slightly with color. This product contains US EPA VOC-exempt solvent(s).

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	<p>Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clean water. The surface must show open pores throughout and have a sand paper texture.</p> <p>For recommendations or additional information regarding substrate preparation, please contact Carboline's Technical Service Department.</p>
<b>Concrete or CMU</b>	<p>Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with the appropriate ICRI CSP standard for the coating system. The concrete is considered cured sufficiently for coating when it passes the moisture tests.</p>

# Semstone<sup>®</sup> 800 Series PM

## PRODUCT DATA SHEET



### PERFORMANCE DATA

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

Test Method	System	Results
Bond Strength (ASTM D-4541)	Semstone 800 Series PM	>400 psi (100% concrete failure)
Compressive Strength (ASTM C-579)	Semstone 800 Series PM	5,000 psi
Flexural Strength (ASTM C-580)	Semstone 800 Series PM	2,200 psi
Hardness (ASTM D-2240/Shore D Durometer)	Semstone 800 Series PM	60
Tensile Strength (ASTM C-307)	Semstone 800 Series PM	1,300 psi

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens.

### MIXING & THINNING

**Mixing** | Premix Parts A and B in a 5 gallon mixing bucket, using a heavy-duty, slow-speed drill (400-600 rpm) and a Jiffy Mixer for 2 minutes. Gradually add the contents of Part C and mix for an additional 90 seconds. Mixing is complete when no clumps of dry material exist and the material has light, fluffy consistency.

**Pot Life** | 20 minutes @ 75 °F (24 °C)

### APPLICATION PROCEDURES

**Trowel** | When filling holes and voids apply the 800 Series Patching Mortar with a steel finishing trowel, taping knife, or metal squeegee. Use the surrounding level as a guide for the trowel. 800 Series Patching Mortar may be sanded 8 to 16 hours after application.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	60°F (16°C)	50°F (10°C)	0%
Maximum	75°F (24°C)	90°F (32°C)	90°F (32°C)	90%

Apply only on a clean, sound, properly prepared substrate.

Application and curing times are dependent upon ambient conditions. Please consult Carboline if conditions are not within recommended guidelines.

### CURING SCHEDULE

Surface Temp.	Dry to Recoat Minimum
75°F (24°C)	4 Hours

Maximum Recoat Window:  
24 hours with UV exposure  
3 days with no UV exposure

## CLEANUP & SAFETY

<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.
<b>Ventilation</b>	The use of NIOSH/MSHA approved respirator using #TC-23C-738 organic vapor of #TC-23C-740 organic vapor, acid gas cartridge is mandatory.

## PACKAGING, HANDLING & STORAGE

<b>Packaging</b>	<u>Packaged in 2 units:</u> <b>Carton 1:</b> 2 cans of Part A (liquid) 2 jars of Part B (liquid) <b>Carton 2:</b> 2 1-gallon pails of Part C (aggregate)
<b>Shelf Life</b>	6 months in the original, unopened container
<b>Storage Temperature &amp; Humidity</b>	Store between 60-85 °F (16-30 °C) in a dry area. Avoid excessive heat. Do not freeze.
<b>Shipping Weight (Approximate)</b>	22.128 lbs
<b>Flash Point (Setaflash)</b>	Part A: 199.4 °F (93 °C) Part B: 73.4 °F (23 °C) Part C: >534.2 °F (>279 °C)

## WARRANTY

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