

SELECTION & SPECIFICATION DATA

Generic Type	Modified Epoxy
Description	Two part epoxy exhibiting superior adhesion to concrete and steel. Used primarily as a primer/ sealer for concrete surfaces and top coated with a variety of chemically resistant toppings.
Features	<ul style="list-style-type: none"> • Outstanding wetting properties • Solvent-free • Long working time • Excellent adhesion • Compatible with a variety of toppings
Color	Amber
Dry Film Thickness	127 - 508 microns (5 - 20 mils) per coat
Solids Content	By Volume 100% +/- 2%
Theoretical Coverage Rate	39.4 m ² /l at 25 microns (1604 ft ² /gal at 1.0 mils) 7.9 m ² /l at 125 microns (321 ft ² /gal at 5.0 mils) 2.0 m ² /l at 500 microns (80 ft ² /gal at 20.0 mils) Allow for loss in mixing and application.
VOC Values	

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Concrete	Concrete: Clean and dry. Remove all loose, unsound concrete. Do not apply coating unless concrete has cured at least 28 days @ 70°F (21°C) and 50% RH or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require filling/surfacing.

MIXING & THINNING

Mixing	Mix Part A resin with Part B hardener until uniform in color and consistency.
Ratio	A:B 2:1
Pot Life	Approximately 60 minutes @ 75°F (24°C)

APPLICATION PROCEDURES

General	Apply to prepared surface using flat floor squeegee, paint roller, or brush. Apply in one even coat to thoroughly wet and seal surface. Do not allow to puddle. Note: To avoid potential outgassing problems, Carboline recommends applying Semstone 110 while ambient temperature is descending. As common with all epoxies and novolacs, under certain conditions such as low temperature and high humidity, this product may develop an oily film on its surface known as "blush". This blush should be removed by a soap and water wash prior to any re-coating.
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Semstone 110

PRODUCT DATA SHEET



APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	32°C (90°F)	43°C (110°F)	43°C (110°F)	90%

CURING SCHEDULE

Surface Temp.	Dry to Touch	Maximum Recoat Time
10°C (50°F)	24 Hours	4 Days
18°C (65°F)	10 Hours	3 Days
27°C (80°F)	6 Hours	48 Hours
35°C (95°F)	5 Hours	24 Hours

The surface of SEMSTONE 110 will be tackfree in 6-8 hours at 70°F/21°C.

*SEMSTONE 110 may be topped while still wet. Check specific topcoat data sheet or consult Carboline's Technical Service Department for specific instructions.

CLEANUP & SAFETY

Cleanup | Toluene or Xylene solvents

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions.

Ventilation | When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not able to monitor levels, use MSHA / NIOSH approved respirator.

Caution | Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all ignition sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life | Part A & Part B: 24 months

Shipping Weight (Approximate) | 1.5 gallon unit: 15 lbs (7 kg)
15 gallon unit: 146 lbs (67 kg)

Flash Point (Setaflash) | Part A: 302°F (150°C)
Part B: 230°F (110°C)

Storage | Store indoors, 50-90°F (10-32°C)

WARRANTY

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