

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	5 - 20 mils (127 - 508 microns) per coat
Solids Content	By Volume 100% +/- 2%
Theoretical Coverage Rate	1604 ft ² /gal at 1.0 mils (39.4 m ² /l at 25 microns) 321 ft ² /gal at 5.0 mils (7.9 m ² /l at 125 microns) 80 ft ² /gal at 20.0 mils (2.0 m ² /l at 500 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 0 g/l

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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APPLICATION CONDITIONS

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

CURING SCHEDULE

Surface Temp.	Dry to Touch	Maximum Recoat Time
50°F (10°C)	24 Hours	4 Days
65°F (18°C)	10 Hours	3 Days
80°F (27°C)	6 Hours	48 Hours
95°F (35°C)	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 | This product does not contain flammable solvents, however, clean-up solvents that may be used do contain flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and rounded 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

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

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)

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.