Carboseal™ 750

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Two component, solvent-free epoxy
Description	Epoxy patching and surfacing compound that exhibits excellent bond strength and chemical resistance to a variety of acids, alkalies, salt solutions and oils. It is used to fill voids and bugholes in precast or poured-in-place concrete and other masonry surfaces. Repairs damaged concrete, fills narrow cracks, and can be used as a coving material for floor-wall transitions or lap joint areas. May also be used to repair weld seams and pits in metal.
Features	• Solvent free • Excellent film strength, abrasion, and impact resistance • Rapid hardening for quick service • Easy to mix ratios • Excellent film build and working properties
Color	Light grey (0700)
Primer	Normally self-priming to steel, concrete or masonry surfaces. May be applied over other epoxies.
Dry Film Thickness	125 mils (3175 microns) per coat As required to fill the void or resurface the substrate. May be applied up to 1/8 inch (125 mils) per application on a vertical surface. Thicknesses greater or less than this will alter the coverage rate. Please consult Carboline for additional information.
Solids Content	By Volume 100% +/- 2%
Theoretical Coverage Rate	1604 ft²/gal at 1.0 mils (39.4 m²/l at 25 microns) 13 ft²/gal at 125.0 mils (0.3 m²/l at 3125 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 0 lbs/gal (0 g/l)
Dry Temp. Resistance	Continuous: 250°F (121°C) Non-Continuous: 300°F (149°C) Discoloration may be observed above 200 °F (93 °C).
Limitations	Epoxies lose gloss, discolor and eventually chalk in sunlight exposure.
Topcoats	May be coated with Epoxies or Polyurethanes depending on exposure and need.

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.
Steel	Cleanliness: SSPC-SP10 Surface Profile: 1.5-3.0 mils (38-75 microns)
Galvanized Steel	SSPC-SP1 and prime with specific Carboline primers as recommended by your Carboline Sales Representative.

SUBSTRATES & SURFACE PREPARATION

Concrete or CMU

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 ICRI standard required for the flooring system to be installed.

Contact Carboline for advice if there are impurities, such as oils, excess moisture, etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

PERFORMANCE DATA

Test Method	System	Results
Bond Strength Elcometer (ASTM D4541)	Carboseal 750	>400 psi concrete failure
Compressive Strength (ASTM C579)	Carboseal 750	5000 psi
Flexural Strength (ASTM C580)	Carboseal 750	2200 psi
Hardness Shore D Durometer (ASTM D2240)	Carboseal 750	60 Shore D
Tensile Strength (ASTM C307)	Carboseal 750	1300 psi

Test reports and additional data available upon written request.

MIXING & THINNING

Mixing

Power mix Carboseal 750 Part A and Carboseal 750 Part B separately and then combine and power mix for at least two minutes or until a uniform gray color is achieved. Recommend using a heavy-duty, slow speed drill and a jiffy mixer. When mixing partial kits it is critical to apportion equal volumes of the two components to ensure proper cure and film properties. Any unused material must be resealed immediately.

Ratio 1:1 Ratio (A to B)

Pot Life

15-30 min at 75 °F (24 °C) depending on volume mixed. Pot life ends when coating becomes too viscous to use. Pot life times will be less at higher temperatures or larger mixed masses.

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.

Hand Tools

This is a high solids thixotropic coating that is applied through the use of one or more of the following: steel finishing trowel, taping knife, spatula, or rigid squeegee. Use the surrounding area as a leveling guide for finishing.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	55°F (13°C)	55°F (13°C)	55°F (13°C)	0%
Maximum	90°F (32°C)	125°F (52°C)	110°F (43°C)	80%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions. It may be sanded 8 to 16 hours after application, depending on ambient conditions.

CURING SCHEDULE

Surface Temp.	Set Time to Topcoat with Other Finishes	Ultimate Physical Characteristics
75°F (24°C)	8 Hours	7 Days

Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. **Maximum recoat/topcoat times are 30 days for epoxies and 90 days for polyurethanes at 75 °F (24 °C)**. If the maximum recoat times have been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats. Abrasive blast Carboseal 750 prior to applying elastomeric topcoats such as Reactamine 760.

CLEANUP & SAFETY

Cleanup	Use scouring pads and water or Thinner 2. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	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.
Caution	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

Packaging	**3.6 Gallon Kit** Carboseal 750 Part A - 1.8 gal (6.8 liters) Carboseal 750 Part B - 1.8 gal (6.8 liters)
Shelf Life	Min. 36 months Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers
Storage Temperature & Humidity	60-85 °F (16-30 °C) Do not freeze.
Storage	Store indoors
Shipping Weight (Approximate)	33.4 lbs (15 kg)
Flash Point (Setaflash)	Part A >267 °F (131 °C) Part B >485 °F (251 °C)

WARRANTY

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