

**SELECTION & SPECIFICATION DATA**

<b>Generic Type</b>	Trowel applied flooring epoxy mortar flooring
<b>Description</b>	Epoxy floor mortar with special blend of aggregates that ensures superior application characteristics. Excellent abrasion, impact and scratch resistance make Carboseal 710 an excellent choice for high traffic areas.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent abrasion resistance</li> <li>• Easy to clean and maintain</li> <li>• Excellent impact resistance</li> <li>• Seamless, hygienic finish</li> <li>• Rapid installation</li> <li>• High chemical resistance</li> <li>• Adjustable slip resistance</li> <li>• Scratch resistance</li> <li>• Can be used for coving</li> <li>• Can be power troweled</li> </ul>
<b>Color</b>	<p>This product can be tinted with pigment packs.            Stocked Colors: Red (Q501), Mid Gray (Q703)            Made to Order Colors: Cream (Q202), Tan (Q204), Khaki (Q205), Green (Q302), Safety Yellow (Q603) and Dark Gray (Q704)</p>
<b>Finish</b>	Satin
<b>Primer</b>	Carboseal 720 or other as recommended by Carboline
<b>Typical Uses</b>	Ideal for use in demanding environments such as food industry, paper industry, engineering, automotive and aerospace industries. Also ideal for canteens, corridors and workshops.
<b>Recommended Thickness</b>	3/16"-1/4" (.48-.64 cm)
<b>Coverage Rate</b>	120 ft <sup>2</sup> (11 m <sup>2</sup> ) per single pack unit at 3/16" (0.48 cm) and 90 ft <sup>2</sup> (8.4 m <sup>2</sup> ) per single pack unit at 1/4" (0.64 cm).
<b>VOC Value(s)</b>	10 g/l (.08 lbs/gal)
<b>Dry Temp. Resistance</b>	<p>Continuous: 140°F (60°C)            Non-Continuous: 200°F (93°C)</p>
<b>Topcoats</b>	<p>A grout coat of Carboseal 702 is recommended.</p> <p>Carboseal 705, Carboseal 725, Carboseal 745, Carboseal 816 HAR, or Carboseal 985 can be applied after the grout coat.</p>

### SUBSTRATES & SURFACE PREPARATION

#### Concrete

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 ICRI CSP 2-7.

The quality of the concrete and surface profile of the floor must correspond to the areas in use. Irregularities, damage and cracks should be filled with epoxy filler.

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

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

Test Method	Results
Abrasion Resistance (ASTM D4060)	0.3 grams
Bond Strength (ASTM D4541)	> 350 psi
Compressive Strength (ASTM C579)	10,500 psi
Flexural Modulus of Elasticity (ASTM D790)	$2.01 \times 10^6$ psi
Flexural Strength (ASTM C580)	4,200 psi
Hardness, D Shore (ASTM D2240)	85 Shore D
Impact Resistance (ASTM D4226)	>160 in/lbs
Slip Resistance Index (ASTM F1679)	0.85
Tensile Strength (ASTM C307)	1,600 psi
Thermal Coefficient of Linear Expansion (ASTM D696)	$3.45 \times 10^{-5}$ in/in/°F
Water Absorption (ASTM C413)	0.24%

The figures above are typical properties achieved in laboratory tests at 70 °F (21 °C) and at 50% Relative Humidity.

### MIXING & THINNING

#### Mixing

If color is desired, add the Universal Color Pack(s) to Carboseal 710 Base A and mix thoroughly until color is consistent.

Add the Carboseal 710 Hardener B to Carboseal 710 Base A and mix thoroughly.

Add the Carboseal 710 Filler and mix using a forced action mixer until homogeneous.

**Note:** Carboseal products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.

**Working Time** | 30 minutes at 70 °F (21 °C)

### 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.

#### General

- Finishing trowels
- Screed box

## APPLICATION PROCEDURES

<b>General</b>	<p>Pour the mixed materials into a screed box, and then pull the box at an even speed over the surface. Finally smooth the surface with a steel or power trowel. The mortar should be applied at approximately 1/4" (0.64 cm).</p> <p>Before applying topcoat the skirting, coves and floor should be scraped to remove all loose stones and high points. The surfaces should then be thoroughly vacuum cleaned. The mortar should harden for at least 15 hours before applying the grout coat.</p> <p>The product should be stored in such a way that the temperature is the same as the room temperature where the product is to be applied, i.e. between 60-80 °F (16-27 °C). This improves the mixing, flow, penetration and hardening of the product.</p>
<b>Trowel</b>	<p><b>Skirting/coves</b></p> <p>Use tape or a cove strip at the height of the cove to produce a neat termination. Mix 1 quart of Carboseal 710, and then add approximately 15 pounds of Carboseal 710 Filler.</p> <p>Apply the skirting compound in the wet primer with a trowel/spatula and smoothen using a coving trowel.</p>

## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	60°F (16°C)	0%
Maximum	80°F (27°C)	80°F (27°C)	80°F (27°C)	90%

The temperature should be over 60 °F (16 °C) to achieve the best results during application. The temperature of the substrate should be at least 50 °F (10 °C), although a temperature of 60-80 °F (16-27 °C) is recommended. The temperature of the substrate should exceed the dew point by more than 5 °F (3 °C) during application and hardening.

## CURING SCHEDULE

Surface Temp.	Light Traffic	Heavy Traffic	Final Cure
50°F (10°C)	36 Hours	72 Hours	12 Days
70°F (21°C)	24 Hours	48 Hours	7 Days
85°F (29°C)	24 Hours	48 Hours	7 Days

The surface can normally be walked on after approx. 15 hours at 70 °F (21 °C). Complete hardening takes 5-7 days.

## CLEANUP & SAFETY

<b>Cleanup</b>	Cleaned immediately after use with solvent or thinners. Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.
<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.

# Carboseal<sup>®</sup> 710

## PRODUCT DATA SHEET



### PACKAGING, HANDLING & STORAGE

<b>Packaging</b>	<b>3 Gallon Kit</b> Carboseal 710 Base A - 2 gal Carboseal 710 Hardener B - 1 gal Carboseal 710 Filler - 4 x 50 lb (22.7 kg) bags Pigment Pack (optional)
	<b>12 Gallon Kit</b> Carboseal 710 Base A - 8 gal Carboseal 710 Hardener B - 4 gal Carboseal 710 Filler - 16 x 50 lb (22.7 kg) bags Pigment Pack x 4 (optional)
<b>Shelf Life</b>	12 months in unopened container
<b>Storage Temperature &amp; Humidity</b>	50-90 °F (10-32 °C)
<b>Shipping Weight (Approximate)</b>	3 Gallon Kit - Approx. 236 lbs (107 kg) 12 Gallon Kit - Approx. 922 lbs (418 kg)
<b>Flash Point (Setaflash)</b>	Part A: 392 °F (200 °C) Part B: 212 °F (100 °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.