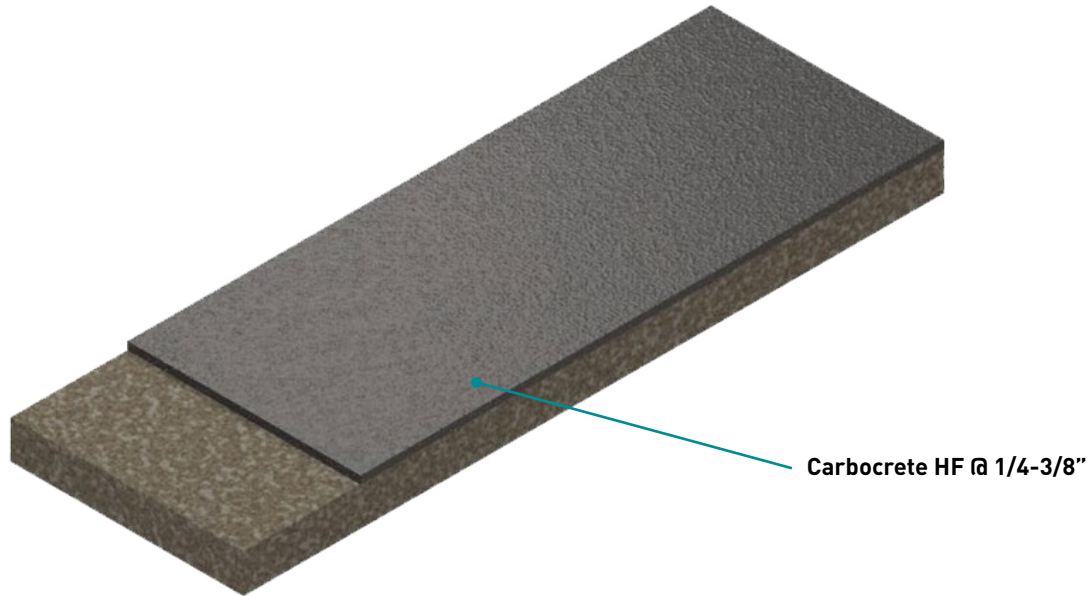


Carbocrete™ HF (1/4 to 3/8-inch)

SYSTEM INFORMATION SHEET



- » Highly functional trowel applied cementitious urethane mortar (1/4 to 3/8-inch / 0.64 to 0.95 cm).
- » Unaffected by MVT (moisture vapor transmission).
- » Contains Polygiene®, an antimicrobial additive based on silver ion nanotechnology.
- » Demonstrates excellent resistance to thermal shock, mechanical damage, and chemical attack.

TEST METHOD	RESULTS
Abrasion Resistance (ASTM D4060) CS-17 Wheel, 1,000 cycles	50 mg loss
Adhesion (ASTM D4541)	400 psi, 100% concrete failure
Coefficient of Friction (ASTM D2047)	Exceeds ADA recommendations
Coefficient of Thermal Expansion (ASTM C531)	1.1 x 10 ⁻⁵ in/in/°F
Compressive Strength (ASTM C579)	8,000 psi
Flexural Strength (ASTM C580)	2,900 psi
Tensile Strength (ASTM C307)	1,450 psi
Tensile Strength (ASTM C307)	1,450 psi
Temperature Resistance (continuous)	220°F
Temperature Resistance (non-continuous)	250°F

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SYSTEM INFORMATION SHEET

SYSTEM STEPS	PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME
Optional Primer ¹	Carbocrete FC	Approx. 10 mils*	100-120 ft ² per single pack kit	Carbocrete Base A Carbocrete Hardener B Carbocrete FC Filler Pigment Pack	Flat Squeegee Short Nap Roller	6 hours

¹Primer is only required if concrete is extremely porous and outgassing is a concern. The use of Carbocrete FC as a primer maintains moisture vapor transmission resistance integrity.

The mixed product can be poured out directly to the floor, spread to the desired thickness with rubber squeegee. Further finishing can be done by lightly rolling the surface. Finishing must be completed as quickly as possible and within 5 minutes after the material has been applied. The roller head must be replaced regularly (approx. every 500 sq.ft/ 46.45 sq.m) to prevent resin curing on the roller.

*Follow theoretical coverage rates for application thickness of Carbocrete FC.

A. Trowel Mortar	Carbocrete HF	1/4-3/8-1/4" (0.63-.95cm)	24 ft ² per single pack kit @ 1/4" (0.64 cm) 17 ft ² per single pack kit @ 3/8" (0.95)	Carbocrete Base A Carbocrete Hardener B Carbocrete HF Filler Pigment Pack	Finishing Trowels Screed Box Short Nap Mohair Roller	6 hours
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Pour the material into a screed box (laying box) that is set to a depth which is 1/16" greater than the required thickness. Pull the box slowly (across the width of the area to applied) allowing the material to flow from the bottom of the box and achieve consistent coverage. The surface can then be compacted and finished with a trowel.

Alternatively, the mixed product can be poured out directly to the floor, spread to the desired thickness and finished with a trowel. Further finishing can be done by lightly rolling the surface with a mohair roller to even out the surface and reduce trowel marks. Excessive rolling reduces texture and can lead to pin holes in the resin rich surface. Finishing with a roller must be completed as quickly as possible and within 5 minutes after the material has been applied. The roller head must be replaced regularly (approx. every 500 ft²/ 46.5 m²) to prevent resin curing on the roller.

COVING

PRODUCT	GENERIC TYPE	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT
Primer: Carboseal 702	100% Solids Epoxy	10-12 mils	130-160 ft ² per gallon	Carboseal 702 Base A Carboseal 702 Hardener B	Brush or Roller
Carbocrete Cove	Cementitious Urethane	1/8"-3/16"	*see below	Carbocrete Cove Base A Carbocrete Cove Hardener B Carbocrete Cove Filler C Pigment Pack	Coving Trowel

Apply Carbocrete Cove directly into wet Carboseal 702. If Carboseal 702 loses wetness reapply Carboseal 702.

*16 ft² (1.5 m²)/ single pack unit or 48 linear ft (14.6 m)/ single pack unit at 4" (10.2 cm) high at 1/8" (0.32 cm)

*11 ft² (1.0 m²)/ single pack unit or 33 linear ft (14.6 m)/ single pack unit at 4" (10.2 cm) high at 3/16" (0.32 cm)

CHEMICAL RESISTANCE

Carbocrete HF has demonstrated excellent resistance to the following chemicals at 70°F.

Acetic Acid - 5-10%	Castor Oil	Fish Oil	Lard	Sulfuric Acid <20%
Acrylic Acid	Chicken Fats	Formaldehyde	Lime Juice	Tall Oil
Ammonium Chloride - 30%	Chlorinated Paraffin	Formic Acid	Linseed Oil	Tap water
Beer	Citric Acid - 10-30%	Grape Juice	Mineral Oil	Urea - 30%
Benzene	Crude Oil	Heptane	Nitric Acid <30%	Vegetable Juice
Benzyl Alcohol	Deionized Water	Hexane	Phosphoric Acid <50%	Water
Boric Acid - 20%	Dichlorobenzene	Hydrogen Peroxide<30%	Pine Oil	Whisky
Blood	Diesel Oil	Jet Fuel	Seawater	Wine
Butyl Ether	Dish Washing Detergent	Kerosene	Skydrol	Xylene
	Ethylene Glycol	Lactic Acid	Sodium Hydroxide <50%	

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SYSTEM INFORMATION SHEET

INSTALL

This document is meant as a guideline for the installation of the Carbocrete HF. Contact Carboline Technical service for further assistance prior to the installation of a Carbocrete system.

SURFACE PREPARATION

Follow NACE 6/SSPC 13 guidelines. Concrete or screed substrate should be sound, free from laitance, dust, and other contamination with a minimum of 3,625 PSI compressive strength. The substrate should be dry and free from excess rising moisture. Abrade the surface to achieve an ICRI CSP 5-6 surface profile.

Anchor grooves, at least 1/4" (0.64cm) wide and 1/4" (0.64cm) deep, must be cut at 6" (15.24cm) perimeter along all walls, edges, pillars, doors, drainage channels, grid drains and penetrative joints. All control joints must be honored. Anchor grooves must be cut on both sides of such joints. Welded joints and cracks in the concrete may be coated, but if movement occurs the coating will also crack. All residues must be removed to provide a dry, dust free open textured surface. Contact Carboline Technical Service for further information.

MIXING

All mixing should follow the mixing instructions on the specific Carbocrete or Carboseal Product Data pages.



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NOTE:

The technical data presented in this document is accurate to the best of Carboline's knowledge based on laboratory testing of the product(s) or system(s) described. Actual results in the field may vary depending on field conditions and application methods. The performance characteristics stated do not constitute a guarantee or warranty that the products will meet the stated results under all circumstances. Contact Carboline technical staff with questions.