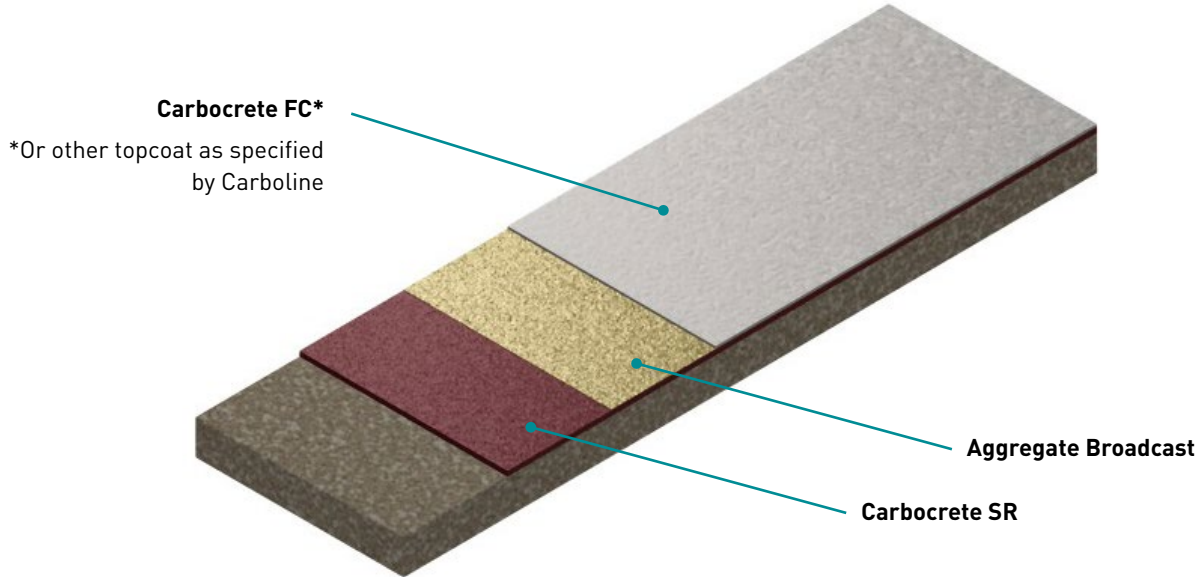


# Carbocrete™ SR (3/16 to 1/4-inch)

## SYSTEM INFORMATION SHEET



- » Easy to apply, highly functional slurry-broadcast cementitious urethane flooring systems (3/16 to 1/4-inch / 0.48 to 0.64 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)	1.5 x 10 <sup>-5</sup> in/in/°F
Compressive Strength (ASTM C579)	8,128 psi
Flexural Strength (ASTM C580)	2,900 psi
Modulus of Elasticity (ASTM C469)	1.7 x 10 <sup>5</sup>
Tensile Strength (ASTM C307)	1,450 psi
Temperature Resistance (continuous)	200°F
Temperature Resistance (non-continuous)	250°F

# Carbocrete SR (3/16 to 1/4-inch)

## SYSTEM INFORMATION SHEET

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

<sup>1</sup>Primer 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. Slurry	Carbocrete SR	3/16-1/4" (0.48-.64cm)	24 ft <sup>2</sup> per single pack kit @ 3/16" (0.48 cm) 18 ft <sup>2</sup> per single pack kit @ 1/4" (0.64)	Carbocrete Base A Carbocrete Hardener B Carbocrete FC Filler Pigment Pack	Gauge, Pin, or Cam Rake Loop Roller	6 hours
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The mixed product should be poured out evenly over the floor and then applied to the desired thickness with a pin or cam rake, a trowel is then used to remove the traces of the rake or joins between mixes. Loop-roll the material to aid leveling, air re-lease, and to bring resinous material to the surface to accept broadcast media.

B. Aggregate Broadcast	20/40 Mesh Quartz or Sand	N/A	Approx. 1/2-1 lb per ft <sup>2</sup>	Typically a 50 lb bag	N/A	N/A
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A full aggregate broadcast is required for proper curing and topcoat adhesion. Broadcast desired aggregate into wet material until rejection. After coating has reached walk-on cure time remove excess aggregate and apply desired topcoat.

When top-coating with Carbocrete FC a non-decorative aggregate is used. Broadcast the aggregate evenly and provide a dry beach appearance. A decorative quartz can be used if a clear topcoat is chosen (see optional topcoats section).

C. Top Coat	Carbocrete FC	Approx. 10 mils*	100-120 ft <sup>2</sup> single pack per kit	Carbocrete Base A Carbocrete Hardener B Carbocrete FC Filler Pigment Pack	Flat Squeegee Short Nap Roller	6 hours
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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.

### ALTERNATE TOPCOATS

PRODUCT	GENERIC TYPE	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME
Carbocrete FCUV	UV Stable Cementitious Urethane	Approx. 12 mils	Approx. 230 ft <sup>2</sup> per 2.2 gallon kit	Carbocrete FCUV Base A Carbocrete FCUV Hardener B Carbocrete FCUV Filler C	Flat Squeegee Short nap roller	8 hours
Carboseal 705	100% Solids Clear Epoxy	10-12 mils	130-160 ft <sup>2</sup> per gallon	HPR High Performance Resin Base A Carboseal 705 Hardener B	Notched Squeegee Short Nap Roller	8 hours
Carboseal 985	Polyaspartic	10-15 mils	100-150 ft <sup>2</sup> per gallon	Carboseal 985 Pt A Carboseal 985 Pt B	Notched Squeegee Short Nap Roller	2 hours

Carbocrete FCUV is a UV stable alternate to Carbocrete FC. Both are intended for use in heavy duty environments. A decorative quartz broadcast can be substituted for the traditional broadcast media for a decorative quartz system with MVT assurance. Carboseal 705 or Carboseal 985 can be used as the topcoat in these systems.

# Carbocrete SR (3/16 to 1/4-inch)

## SYSTEM INFORMATION SHEET

### COVING

PRODUCT	GENERIC TYPE	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT
Primer: Carboseal 702	100% Solids Epoxy	10-12 mils	130-160 ft <sup>2</sup> 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 ft<sup>2</sup> (1.5 m<sup>2</sup>) / 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 ft<sup>2</sup> (1.0 m<sup>2</sup>) / 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 SR has demonstrated excellent resistance to the following chemicals at 70°F.

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

## INSTALL

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