

SELECTION & SPECIFICATION DATA

Generic Type	Self-leveling cementitious urethane floor coating
Description	Easy to apply self-leveling base layer for use in broadcast cementitious urethane flooring systems (1/8-3/16" / 0.32-0.48 cm). Higher resistance to MVT (moisture vapor transmission) than standard decorative flooring systems. Contains Polygiene [®] an antimicrobial additive based on silver ion nano technology. Demonstrates excellent resistance to thermal shock, mechanical damage, and chemical attack.
Features	<ul style="list-style-type: none"> • Excellent chemical resistance • High MVT resistance • High abrasion resistance • Resistant to thermal shock • Withstands high mechanical stress • Easy to clean and sterilize surface • Ultra low VOC/odor • May be applied to "green" concrete • Can be use in decorative systems • Suitable for use in USDA inspected facilities
Color	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)
Finish	Matte
Primer	Does not normally require a primer. Carbocrete FC or Carboseal 720 can be used for highly porous substrates. Under certain conditions, out-gassing of the concrete may cause surface defects in the finished Carbocrete topping and priming of the concrete surface may be required. Install a test patch in the area of concrete to determine if priming is necessary.
Typical Uses	Ideal for decorative flooring systems where extra moisture vapor transmission assurance is required.
Recommended Thickness	1/8"-3/16" (0.32-0.48 cm)
Coverage Rate	94 ft ² at 3/32" per 61 lb unit (8.7 m ² at 0.24cm per 27.7 kg unit) 63 ft ² at 1/8" per 61 lb unit (5.9 m ² at 0.32cm per 27.7 kg unit)
VOC Values	As supplied 0.04 lbs/gal (5 g/L)
Dry Temp. Resistance	Continuous: 180°F (82°C) Non-Continuous: 220°F (104°C)
Limitations	Not resistant to ground water hydrostatic pressure. Carbocrete SL may change color over time depending on exposure to UV light and heat. This does not compromise the product's chemical resistance or physical characteristics.
Topcoats	Optional: Carbocrete FC, Carbocrete FCUV, Carbocrete SR Sealer, Carboseal 705, Carboseal 725, Carboseal 985 or as recommended by Carboline.

SUBSTRATES & SURFACE PREPARATION

Concrete	<p>Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. 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 4-5 surface profile.</p> <p>Anchor grooves, at least 1/8" (0.32 cm) wide and 1/8" (0.32 cm) 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. The surface profile and levels should be appropriate for the system to be applied. Contact Carboline for advice if there are impurities, such as oils, etc in the concrete.</p>
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PERFORMANCE DATA

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

Test Method	Results
Abrasion Resistance (ASTM D4060) CS 17 Wheel, 1000 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)	2.7×10^{-5} in/in/°F
Compressive Strength (ASTM C579)	>7,250 psi
Flexural Strength (ASTM C580)	2,900 psi
MVT Resistance (ASTM F1869)	12 lbs/1,000 ft ² /24hrs
Tensile Strength (ASTM C307)	1,740 psi

The figures and test results shown are typical properties achieved in laboratory tests at 68 °F (20 °C) and at 50% Relative Humidity.

MIXING & THINNING

Mixing	<p>Pour Carbocrete Double Pack Base A into suitably sized mixing vessel and add the pigment pack and mix using a slow speed drill and helical spinner for 20 seconds. Add Carbocrete Double Pack Hardener B. Mix for 30 seconds and then add Carbocrete SL Filler while mixing. Ensure that all fillers and resins are scraped into the mix from the sides of the mixing vessel otherwise bubbles/blisters can develop in the applied floor. Continue mixing until a homogeneous mixture is obtained (1-2 minutes).</p> <p>Before the next mix, scrape out any residual material from the mixing vessel and dispose of before starting the next mix; otherwise the working time of the following mix could be reduced.</p> <p>Note that Carbocrete SL uses double pack A and B components. Use common batch numbers for pigment packs on the same job. This will help ensure color uniformity. Remember, never split batches/components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in color, etc. There are often several types of products at a workplace. Sort the products separately to avoid mistakes. It is important that the material is kept warm, to maintain its fluidity. It is also necessary to warm up the filler component; otherwise it will act as a heat sink and cool down the mixture.</p>
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Working Time | 15 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** | • ½" (1.27 cm) Notched Squeegee
• Porcupine or spike rollers

APPLICATION PROCEDURES

- General** | Prior to starting the job, 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.
- Broadcast** | 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.
- Application** | The mixed product should be poured out evenly over the floor and then applied to the desired thickness with a notched squeegee, a trowel is then used to remove the traces of the squeegee or joints between mixes. Loop-roll the material to aid leveling, air release, and to bring resinous material to the surface to accept broadcast media.
- At lower temperatures the hardening time is longer. It is important there are no dry patches. The surface will NOT be sufficiently hardened the same day to allow cove application. Coves should be applied the next day to avoid marks on the floor.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	60°F (16°C)	0%
Maximum	90°F (32°C)	90°F (32°C)	90°F (32°C)	95%

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 not 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)	14 Hours	36 Hours	7 Days
70°F (21°C)	8 Hours	16 Hours	5 Days
90°F (32°C)	5 Hours	10 Hours	2 Days

At lower temperatures the hardening time is longer. It is important there are no dry patches. Complete hardening takes 5-7 days. Carbocrete SL coating should not be applied in thicker coats than specified because the cure (hardening) can be impaired.

CLEANUP & SAFETY

- Cleanup** | Clean tools immediately after use with acetone, MEK, or mineral spirits.

- 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.

MAINTENANCE

General	Normal plant cleaning procedures may be employed after the Carbocrete floor has been put in service. There are no effective restrictions on the method of cleaning employed. Carbocrete products, when properly installed, will withstand water wash down at continuous sanitizing temperatures.
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PACKAGING, HANDLING & STORAGE

Packaging	Carobocrete SL Packaging Carbocrete Base A (Double Pack)- 1.20 gal (4.5 liters) Carbocrete Hardener B (Double Pack) - 0.98 gal (3.7 liters) Carbocrete SL Filler C - 40 lb (18 kg) bag Pigment Pack
Shelf Life	12 months in unopened container
Storage Temperature & Humidity	50-90°F (10-32°F) Do not freeze.
Shipping Weight (Approximate)	Approx. 51.5 lbs (23.4 kg)
Flash Point (Setaflash)	Part A: >200 °F (93 °C) Part B: 351 °F (177 °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.