

SELECTION & SPECIFICATION DATA

Generic Type	High performance cementitious urethane floor sealer
Description	Carbocrete FCUV is a high performance, UV stable, semi-gloss topcoat for cementitious urethane floor systems. Contains Polygiene [®] an antimicrobial additive based on silver ion nano technology.
Features	<ul style="list-style-type: none"> • UV stable • Excellent chemical resistance • High abrasion resistance • Resistant to thermal shock • Excellent resistance to MVT (moisture vapor transmission) • Easy to clean and sterilize • Non-tainting, non-dusting • Withstands mechanical stress • Ultra low VOC • Suitable for use in USDA inspected facilities.
Color	<p>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> <p>Note: When applying at less than 12 mils, it may be necessary to add 2 pigment packs for full opacity.</p>
Finish	Semi-Gloss
Typical Uses	Used as a topcoat for Carbocrete systems where UV stability is desired.
Recommended Thickness	<p>12 mils (300 microns)</p> <p>Do not apply at less than 5 mils (127 microns)</p>
Coverage Rate	<p>Approximately 290 ft² (88.4 m²) per 2.2 gallon unit</p> <p>Approximately 230 ft² (70 m²) as a lock coat over broadcast floors per 2.2 gallon unit</p>
VOC Values	As supplied 0.04 lbs/gal (5 g/L)
Limitations	Not resistant to ground water hydrostatic pressure.
Density	Approximately 11.5 lbs/gallon (1.38 kg/L)

SUBSTRATES & SURFACE PREPARATION

General	Apply over properly installed Carbocrete system. Any loose broadcast media must be removed prior to the application of Carbocrete FCUV.
----------------	---

PERFORMANCE DATA

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

Test Method	System	Results
Compressive Strength (ASTM D579)	Carbocrete FCUV	7,000 psi
Flexural Strength (ASTM C580)	Carbocrete FCUV	1,200 psi
Tensile Strength (ASTM C307)	Carbocrete FCUV	1,500 psi

MIXING & THINNING

Mixing | Add Carbocrete FCUV Base A to mixing vessel. Add Pigment Pack and mix with slow speed drill and helical paddle for 20 seconds. Add Carbocrete FCUV Filler and mix for 1 minute, ensuring all filler has been fully dispersed. Finally add Carbocrete FCUV Hardener B and mix for 30 seconds.

Working Time | Ready-mixed product should be used within 20 minutes at a temperature of 70 °F (21 °C). At higher temperatures the application time is shorter.

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 | • Flat rubber squeegee
• Shed resistant short nap roller

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.

Application | Carbocrete FCUV should be applied evenly in a consistent layer thickness. Spread using a rubber squeegee and then back roll using a 3/8" nap roller, finally cross roll using a 1/4" nap roller. Do not apply at less than 5 mils (127 microns)

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	90°F (32°C)	90°F (32°C)	90°F (32°C)	85%

The recommended substrate temperature is 60-80 °F (16-27 °C), but no less than 50 °F (10 °C).

The temperature of the substrate should not exceed the dew point by 5 °F (3 °C) during application and hardening. Temperatures should not fall below 40 °F (4 °C) in the 24 hours after application.

CURING SCHEDULE

Surface Temp.	Tack Free	Dry to Topcoat	Maximum Recoat Time
70°F (21°C)	8 Hours	8 Hours	24 Hours

*Requires sanding if overcoated later than 24 hours. Can be walked on after 8 hours. The product is fully hardened after 5-7 days.

Note: Good ventilation and the correct humidity are prerequisites to achieve the above drying times. High humidity in the early stages of cure can result in extended cure times. Do not cover or wash within first 24 hours of curing.

CLEANUP & SAFETY

Cleanup | Clean tools immediately after use with acetone or MEK.

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.

PACKAGING, HANDLING & STORAGE

Packaging | **Single Pack**
Carbocrete FCUV Base A - 0.59 gal (2.2 liter)
Carbocrete FCUV Hardener B - 0.48 gal (1.8 liter)
Carbocrete FCUV Filler - 1 x 7.1 lb (3.2 kg) bag

Shelf Life | Part A - 12 months
Part B - 6 months
Filler - 12 months

In unopened container

Storage Temperature & Humidity | Store between 50-90 °F (10-32 °C).
Protect from frost.

Shipping Weight (Approximate) | Approx. 21.5 lbs (9.8 kg)

Flash Point (Setaflash) | Part A: >200 °F (93 °C)
Part B: 200 °F (93 °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.