

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Modified water-based acrylic siloxane.
<b>Description</b>	A water repellent sealer for industrial use that penetrates concrete and masonry. The treated surface will have greatly improved resistance to penetration of salts, water, oils and other contaminants. The recommended uses are for protection of masonry and concrete surfaces such as exterior walls, bridge decks, roadways, median barriers, bridge piers and other highway concrete requiring protection from chloride penetration.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent abrasion resistance.</li> <li>• Excellent weathering resistance.</li> <li>• May be mixed with pigmented finishes to produce a translucent or opaque stain.</li> <li>• Environmentally friendly and cost effective.</li> <li>• Suitable for use in USDA inspected facilities</li> <li>• Prevents damaging penetration of water and salts.</li> <li>• Breathable.</li> <li>• Does not reduce the non-skid properties of concrete.</li> </ul>
<b>Color</b>	Clear. May be tinted with Carbocrylic 3350, 3359, or Sanitile 155 to produce a translucent stain. Do not attempt to achieve a final color lighter than the substrate color. For additional information on the stain system see "Mixing & Thinning" information.
<b>Primer</b>	This is a self-priming sealer.
<b>Dry Film Thickness</b>	1 - 3 mils (25 - 76 microns) depending on substrate  This product should be applied at certain spreading rates over porous substrates. For very porous substrates (adobe or split-face CMU) spread at 50 square feet per gallon for the first coat and 150 square feet per gallon for the second. Most applications require a single coat spread at 150-200 square feet per gallon.
<b>Solids Content</b>	By Volume 10% +/- 2%
<b>Theoretical Coverage Rate</b>	160 ft <sup>2</sup> /gal at 1.0 mils (3.9 m <sup>2</sup> /l at 25 microns) 53 ft <sup>2</sup> /gal at 3.0 mils (1.3 m <sup>2</sup> /l at 75 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	As Supplied 1.7 lbs/gal (209 g/l)  These are nominal values.
<b>Topcoats</b>	May be coated with Acrylics depending on exposure and need.

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Surfaces <u>must</u> be clean and dry. Employ adequate methods to remove dirt, dust, oil, existing coatings, curing compounds, efflorescence, laitance, and all other contaminants that may prevent absorption.
<b>Concrete or CMU</b>	Concrete, concrete block, brick, stucco or plaster must be properly prepared. New concrete <u>must</u> be cured a minimum of 7 days at 75°F (24°C) and be free of surface moisture. Paintable caulking, sealants and any repairs needed to the surface should be installed prior to the sealer application. Concrete, precast and cast-in-place surfaces tend to be tight and non-absorptive. Mechanical abrasion or acid etching is recommended to achieve even penetration and appearance. Acid washes must be thoroughly rinsed with water and allowed to dry.

# Carbocrete™ Sealer WB

## PRODUCT DATA SHEET



### PERFORMANCE DATA

Test Method	System	Results
AASHTO T259, T260 Chloride Penetration Test 3% NaCl ( 90 day ponding)	1 Coat Carbocrete Sealer WB	0.39 lbs./m3 - Pass
ASTM C 67, ASTM C 642 Water Absorption	1 ct. Carbocrete Sealer WB	3% Maximum 24 hours/75°F
ASTM D 1653 Moisture Vapor Permeability	1 ct. Carbocrete Sealer WB	23 g/ft <sup>2</sup> 24 hr/75°F
ASTM D 4587 Accelerated Weathering	1 Coat Carbocrete Sealer WB	No Effect after 1000 hours
ASTM E 514, ASTM C 1389 Water Repellency vs Untreated Masonry	1 Coat Carbocrete Sealer WB	89.4%

### MIXING & THINNING

<b>Mixing</b>	<p>Mix Carbocrete Sealer WB thoroughly before use. When used as a stain, mix prior to and during application as needed to achieve a uniform appearance.</p> <p><b>For application as a translucent or opaque concrete stain, follow the ratios recommended below.</b></p> <p><b>First Coat:</b> Mix four (4) parts sealer WB to one (1) part pigmented acrylic.</p> <p><b>Second Coat (Translucent Stain):</b> If a translucent stain is desired, mix one (1) part sealer to four (4) parts pigmented acrylic.</p> <p><b>Second Coat (Opaque Stain):</b> If an opaque stain is desired, mix one (1) part sealer up to ten (10) parts pigmented acrylic, to achieve desired opacity.</p> <p>While color and translucency is almost unlimited, the original substrate color and color variances will show through the translucent colors and affect the final color. A test application over the actual substrate and approval by the owner or owner's representative is highly recommended.</p>
<b>Thinning</b>	<p>Thinning is not required and is not recommended. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.</p>

### 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.

<b>Airless Spray</b>	<p>Use standard airless spray equipment with a 0.015" - 0.017" tip size. The more porous the substrate, the larger the tip size that can be used.</p> <p><b>Horizontal Surfaces:</b> Flood surface using low pressure sprayer. If two coats are desired, let the surface absorb the solution. Do not apply a second coat if any whiteness still remains in first coat. Redistribute any puddles or freestanding material; remove excess material after 15-30 minutes.</p> <p><b>Vertical Surfaces:</b> Apply by low pressure spray in one or two applications as required for uniform color from the top down. Hold tip 12-18 inches from surface. Material should run down 3-5 inches from point of contact.</p>
<b>Brush &amp; Roller (General)</b>	<p>Recommended for small areas only. Use a short-nap synthetic roller cover with phenolic core.</p>

## 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)	110°F (43°C)	110°F (43°C)	90%

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. For temperatures above 100°F (38°C), pre-wet surface with clean potable water prior to application.

## CURING SCHEDULE

Surface Temp.	Dry to Recoat
75°F (24°C)	3 Hours

## CLEANUP & SAFETY

<b>Cleanup</b>	Use a wet cloth and detergent to clean wet material. Use thinner #2 to clean tools and equipment where material has dried. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands. Keep container closed when not in use.
<b>Ventilation</b>	When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved supplied air respirator.

## PACKAGING, HANDLING & STORAGE

<b>Shelf Life</b>	36 months at 75°F (24°C)
<b>Storage Temperature &amp; Humidity</b>	40° - 110°F (4°-43°C) 0-90% Relative Humidity This is a water-based product. Protect from freezing.
<b>Shipping Weight (Approximate)</b>	5 Gallon - 43 lbs. (20 kg) 55 Gallons - 483 lbs. (220 kg)
<b>Flash Point (Setaflash)</b>	>212°F (200°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.