

# Sikagard® 670W Clear

Water-based, 100% acrylic, protective coating

<b>Description</b>	Sikagard 670W Clear is a clear, water-based acrylic protective coating. Sikagard 670W Clear prevents moisture ingress, is water vapor permeable, and provides an excellent carbonation barrier.
<b>Where to Use</b>	Protective coating for exposed aggregate surfaces, concrete, masonry and brick. Application on vertical, overhead and Horizontal (non-traffic bearing) surfaces.
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Provides resistance to weathering, frost and de-icing salts.</li><li>■ Improves look of structure without changing appearance.</li><li>■ Excellent adhesion.</li><li>■ High UV light resistance.</li><li>■ Excellent resistance to carbon dioxide and other aggressive gas diffusion.</li><li>■ Water vapor permeable (breathable).</li><li>■ Easy application by brush, roller or spray.</li><li>■ Resistant to dirt pick-up.</li><li>■ Prevents ingress of chlorides.</li><li>■ Cost-effective protection.</li></ul>
<b>Coverage</b>	Theoretical per coat: 160 sq. ft./gal. Wet film thickness: 10 mils. Dry film thickness: 2.3 mils. All coverage is dependent on porosity of substrate. In addition, allowance must be made for surface profile. Unavoidable variation in application thickness, loss and waste. Normal coating system is one coat minimum at a total nominal dry film thickness of 2.3 mils. The total number of coats depends on the porosity of the substrate. On very porous substrates, two coats will typically be required.
<b>Packaging</b>	5 gallon, re-closable plastic pails.

## Typical Data (Material and curing conditions at 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	1 year in original, unopened container.
<b>Storage Conditions</b>	Store dry at 40°-95°F (4°-35°C). <b>Condition material to 65°-75°F (18°-24°C) before using.</b> Protect from freezing. If frozen, discard.
<b>Pot Life</b>	Indefinite, provided proper care is taken in protecting the system from moisture, freezing, contamination, or evaporation.
<b>Solids Content</b>	23% by volume
<b>Viscosity</b>	117-123 ku
<b>VOC Content</b>	193 g/L

### Waiting and Drying Times at 2.3 mils, Dry

Between Coats	Rain Resistant After/Final Drying
45°F (7°C) approx. 70 min.	approx. 3 hours
68°F (20°C) approx. 60 min.	approx. 1 hour and 15 min.
85°F (30°C) approx. 15 min.	approx. 1 hour

### Water Resistance (Cure Time = 1, 3, and 7 days) at 2.3 mils, Dry

ASTM D-2247: very good resistance to whitening (ASTM score = 8, where 10 is perfect)  
ASTM D-714: No blisters (ASTM score = 10, where 10 is none)

**Moisture Vapor Permeability (ASTM D-1653) at 2.3 Mils, Dry** 7.72 perms

### Water Spotting (Tested at 3 hr., 1, 2, 3, and 7 days)

ASTM D-1848: Very good resistance to whitening (ASTM score = 8, where 10 is perfect)

### Water Vapor Transmission (at 2.3 mils=55.2 microns dry film thickness)

$\mu$  - value H<sub>2</sub>O (diffusion coefficient) = 10,300  
Sd H<sub>2</sub>O (equivalent air thickness) = 6 ft. (1.70 m.)

### Carbon Dioxide Diffusion (at 2.3 mils=55.2 microns dry film thickness)

$\mu$  - value CO<sub>2</sub> (diffusion coefficient) = 631,000  
Sd CO<sub>2</sub> (equivalent air thickness) = 226 ft. (69 m.)  
Sc (equivalent concrete thickness) = 7 in. (17 cm.)

Construction

**Sika**®

## How to Use

<b>Surface Preparation</b>	All surfaces to be coated must be dry, clean, sound and frost-free with curing compound residues and any other foreign matter removed. An open textured sandpaper-like surface is ideal (CSP 3 as per ICRI guidelines). Where necessary, surfaces should be prepared mechanically by blast cleaning or high pressure waterjetting. Bugholes, cracks or irregularities of substrate should be filled and leveled with SikaTop, Sika MonoTop leveling mortar as appropriate.
<b>Mixing</b>	Stir thoroughly to ensure uniformity using a low speed (400-600 rpm) drill and Sika paddle.
<b>Application</b>	Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (5°-35°C). Sikagard 670W Clear can be applied by brush, roller, or spray over entire area moving in one direction. Sikagard 670W Clear is usually applied using a short nap roller. Allow a minimum of 60 minutes prior to re-coating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a 'wet' edge. <b>As with all coatings, jobsite mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics.</b>
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Not designed for use as a traffic-bearing surface.</li> <li>■ Substrate must be dry prior to the application. Allow sufficient time for the substrate to dry after rain or other inclement conditions, as this could cause bonding problems. A white haze may develop if moisture is trapped behind the coating.</li> <li>■ Minimum age of normal concrete prior to the application is 14 days, depending on curing and drying conditions. Substrate must be strong enough to properly prepare by mechanical means, achieving a sandpaper-like surface (CSP 3 as per ICRI guidelines).</li> <li>■ Sikagard 670W Clear should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period.</li> <li>■ Do not thin.</li> <li>■ Do not apply if the ambient and substrate temperature are within 5°F (3°C) of the dew point temperature.</li> <li>■ Minimum age of SikaTop or Sika MonoTop thin layer renderings is 3 days prior to the application of Sikagard 670W Clear.</li> <li>■ Do not use over moving cracks.</li> <li>■ Product must be protected from freezing. If frozen, discard.</li> <li>■ During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved.</li> <li>■ When over-coating existing coatings, compatibility and adhesion testing is recommended.</li> <li>■ Do not store Sikagard 670W Clear in direct sunlight for prolonged periods.</li> </ul>
<b>Caution</b>	
<b>Warning</b>	Avoid breathing vapors. Use only with adequate ventilation. May cause respiratory irritation and headaches.
<b>Irritant</b>	Skin, eye, and respiratory irritant; avoid contact. Use of safety goggles and chemical resistant gloves is recommended. Remove contaminated clothing.
<b>First Aid</b>	In case of eye contact, flush with water for 15 minutes, contact physician immediately. For skin contact, wash skin with soap water. For respiratory problems, remove person to fresh air. Wash clothing before re-use.
<b>Spill Clean Up</b>	Confine spill, ventilate closed areas, and collect with absorbent material. Dispose of in accordance with current, applicable, local, state, and federal regulations. Uncured material can be removed with water. Cured material can only be removed mechanically.

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY**

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