

# Sikagard® 670W

Water dispersed, acrylic, protective, anti-carbonation coating

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| <b>Description</b>  | Sikagard 670W is a water dispersed colored, acrylic, protective coating. Sikagard 670W prevents moisture ingress, is water vapor permeable and provides an excellent carbonation barrier.   |
| <b>Where to Use</b> | Above grade, exterior application on buildings or civil engineering structures. It is designed to aesthetically enhance, protect and add superior light reflectance to concrete and other masonry substrates subject to normal hydrothermal movement.   |
| <b>Advantages</b>   | <ul style="list-style-type: none"><li>■ Easy to apply.</li><li>■ Extremely resistant to dirt pick-up and mildew.</li><li>■ Excellent resistance to carbon dioxide and other aggressive gas diffusion.</li><li>■ Excellent UV resistance.</li><li>■ Excellent weathering resistance.</li><li>■ Prevents ingress of chlorides.</li><li>■ Cost effective protection.</li><li>■ Vapor permeable; allows each way water vapor diffusion (breathable).</li><li>■ High Reflectance Value</li></ul>                   |
| <b>Coverage</b>     | Theoretical per coat: 300 sq. ft./gal. Wet film thickness: 5 mils. Dry film thickness: 2.5 mils. Normal coating system is two coats minimum at a total nominal dry film thickness of 5 mils. Consumption is obviously dependent on substrate. In addition, allowance must be made for surface profile, variations in applied film thickness, loss and waste. A third coat may be necessary where opacity is reduced through thinning of the first coat, on dense substrates or with very bright color shades. |
| <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.

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| <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 60°-75°F before using.</b> Protect from freezing. If frozen, discard.   |   |   |
| <b>Colors</b>   | 463 standard colors. Custom color-matching available.   |   |   |
| <b>Pot Life</b>   | Indefinite, provided proper care is taken in protecting the system from moisture, freezing, contamination, or evaporation.  |   |   |
| <b>Solids Content</b>   | <b>by weight:</b> 60%   | <b>by volume:</b> 46%   |   |
| <b>Waiting and Drying Times</b>   | <b>Between Coats:</b><br>45°F (7°C) approx. 90 min.<br>68°F (20°C) approx. 30 min.<br>85°F (30°C) approx. 20 min.   | <b>Rain Resistant After</b><br>approx. 5 hours<br>approx. 1 hour<br>approx. 40 min. | <b>Final Drying</b><br>approx. 24 hours<br>approx. 4 hours<br>approx. 3 hours |
| <b>Water Vapor Diffusion (at 5 mils. = 120 microns dry film thickness)</b>    | $\mu$ - value H <sub>2</sub> O (diffusion coefficient) = 3,140<br>SdH <sub>2</sub> O (equivalent air thickness) = 1.3 ft. (0.4 m)   |   |   |
| <b>Carbon Dioxide Diffusion (at 5 mils. = 120 microns dry film thickness)</b> | $\mu$ - value CO <sub>2</sub> (diffusion coefficient) = 1,100,000<br>SdCO <sub>2</sub> (equivalent air thickness) = 433 ft. (132 m.)<br>Equivalent concrete thickness (Sc) = approximately 13 inches (33 cm.) |   |   |
| <b>Moisture Vapor Permeability (ASTM E-96)</b>                                | 17.9 Perms  |   |   |
| <b>Flame Spread and Smoke Development (ASTM E-84-94)</b>                      | Flame Spread: 0   | Smoke Development: 5  | Class Rating: A   |
| <b>Weathering (ASTM G-26)</b>   | 2000 hours  | Excellent, no chalking or cracking.   |   |
| <b>Light Reflectance Value (ASTM E-1164)</b>                                  | 91%   |   |   |

Construction

 **Sika**®

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## How to Use

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| <b>Surface preparation</b> | All surfaces to be coated must be clean, dry, laitance free, sound and frost-free with curing compound residues and any other contaminants removed. An open textured sandpaper-like surface is ideal (CSP-3). Where necessary, surfaces should be prepared mechanically by blast cleaning or high pressure waterjetting. Allow adequate time for drying. Bugholes, cracks or irregularities of substrate should be filled and leveled with SikaTop, Sika MonoTop leveling mortar or Sikagard Surface Fillers as appropriate.   |
| <b>Priming</b>             | All porous areas or concrete with excessive porosity should be primed using Sikagard 552W Primer or SikaLatex R to allow easy application of Sikagard 670W.  |
| <b>Mixing</b>              | Stir thoroughly to ensure uniformity using a low speed (400-600 rpm) drill and Sika paddle. To minimize color variation when using multiple batches, blend two batches of Sikagard 670W. Use one pail and maintain the second pail to repeat this procedure (boxing) for the entire application.   |
| <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 can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of 20-90 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. Sikagard 670W is usually applied using a short nap lambs wool roller. Sikagard 670W is particularly suitable for application by spray using the most standard spray painting equipment. As with all coatings, jobsite mock-ups should always be completed to confirm acceptability of workmanship and material.<br><br><b>Note:</b> To achieve a dry film thickness of 4-6 mils., two uniform coats should be anticipated. On porous substrates, a third coat may be necessary and on particularly dense substrates, the first coat should be thinned 10% by volume with water. A third coat may then be needed for opacity. |

## Limitations

- Do not use over moving cracks.
- Substrate must be dry prior to the application.
- Minimum age of concrete prior to the application is 14 days, depending on curing and drying conditions (moisture content must be below 5%).
- Minimum age of SikaTop or Sika MonoTop thin layer renderings is 3 days prior to the application of 670W (moisture content must be below 5%).
- Sikagard 670W should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period.
- Allow sufficient time for the substrate to dry after rain or other inclement conditions.
- Product must be protected from freezing. If frozen, discard.
- Not designed for use as a vehicular traffic bearing surface.
- During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved.
- When overcoating existing coatings, compatibility and adhesion testing is recommended.
- Do not store Sikagard 670W in direct sunlight for prolonged periods.

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