

# PRODUCT DATA SHEET

## Sikagard®-670 WMY

### ACRYLIC-BASED WATER-DISPERSED PROTECTIVE COATING FOR CONCRETE

#### DESCRIPTION

Sikagard®-670 WMY is a one part, acrylic-based, water-dispersed, protective coating producing a matt surface finish.

#### USES

For protection and embellishment of facades and fair-faced concrete without obscuring the characteristic surface texture of the concrete.

#### CHARACTERISTICS / ADVANTAGES

- Good water vapour permeability
- High diffusion-resistance to CO<sub>2</sub>, good carbonation barrier
- Excellent resistance to weathering and ageing
- Excellent resistance against chalking
- Greatly reduced water absorption
- Easy to apply
- Excellent adhesion to many substrates
- Ecologically and environmentally harmless

#### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 20 L pail</li> <li>▪ 200 L drum (~RAL 7032 and ~RAL 7035)</li> </ul>
<b>Appearance / Colour</b>	<ul style="list-style-type: none"> <li>▪ Pebble grey (~RAL 7032)</li> <li>▪ Light grey (~RAL 7035)</li> <li>▪ White (~RAL 9010)</li> <li>▪ Non-standard colours are also available upon request</li> </ul>
<b>Shelf Life</b>	12 months from the date of production
<b>Storage Conditions</b>	Store in original unopened packaging in a cool, dry place. Protect from direct sunlight.
<b>Density</b>	~1.3 kg/l (at 20 °C)
<b>Solid content by weight</b>	~60 %
<b>Solid content by volume</b>	~45 %

#### TECHNICAL INFORMATION

<b>Diffusion Resistance to Water Vapour</b>	$\mu\text{H}_2\text{O} > 1\,000$	(BS EN ISO 7783:2011, Wet Cup Method A)
<b>Chloride Ion Diffusion Resistance</b>	Test results indicate that Sikagard®-670 WMY combined with Sikagard®-700 S improves the resistance to chloride permeability by as much as 10 times.	
<b>Permeability to Carbon Dioxide</b>	$S_d > 150\text{ m}$	(BS EN 1062-6:2002, Method B)

#### APPLICATION INFORMATION

<b>Consumption</b>	2–3 coats at approximately 0.15 kg/m <sup>2</sup> per coat. Intensive colours require 3–4 coats. For marine structures, a priming coat of Sikagard®-700 MY (0.2 kg/m <sup>2</sup> is recommended).										
<b>Ambient Air Temperature</b>	+8 °C min. / +35 °C max.										
<b>Relative Air Humidity</b>	Maximum humidity is 80%, observe dew point.										
<b>Substrate Temperature</b>	+8 °C min. / +35 °C max. At rising temperatures, do not apply to concrete substrates without pore sealer.										
<b>Waiting Time / Overcoating</b>	<ul style="list-style-type: none"> <li>Between Sikagard®-700 MY and following coats: 5 hours min. / 1 week max.</li> <li>Between Sikagard®-680 S Transparent and Sikagard®-670 WMY: 8 hours min.</li> </ul> <table border="1"> <thead> <tr> <th>Temperature</th> <th>Minimum between coats</th> <th>Rain resistant</th> </tr> </thead> <tbody> <tr> <td>+23 °C</td> <td>~30 minutes</td> <td>~60 minutes</td> </tr> <tr> <td>+30 °C</td> <td>~20 minutes</td> <td>~40 minutes</td> </tr> </tbody> </table>		Temperature	Minimum between coats	Rain resistant	+23 °C	~30 minutes	~60 minutes	+30 °C	~20 minutes	~40 minutes
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+30 °C	~20 minutes	~40 minutes									
<b>Applied Product Ready for Use</b>	+23 °C	~4 hours									
	+30 °C	~3 hours									

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be free from loose and friable particles, dust and dirt. Remnants of release agents, particularly oil and wax based, must be removed. SikaTop® or Sika MonoTop® mortars can be over-coated after 7 days.

#### Priming

Strong, dense concrete	Sikagard®-670 WMY + 5 % water
Weak, porous concrete	Sikagard®-680 S transparent + 10 % Thinner C
Marine application	Sikagard®-700 MY

### APPLICATION

Sikagard®-670 WMY is supplied ready to use. However, before applying, the material must be thoroughly stirred mechanically. Sikagard®-670 WMY can be applied by brush or roller (preferably with a short piled lamb skin roller) or airless spray equipment with a pressure of 180 bar, nozzle with opening diameter of 0.38–0.66 mm and a spraying angle of 50–60°.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data

Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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**Product Data Sheet**

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May 2026, Version 02.02

020303110010000055

Sikagard-670WMY-en-SG-(05-2026)-2-2.pdf

