

# Sikagard®-670W MY

Acrylic based, water-dispersed, protective coating for concrete

## Product Description

Sikagard®-670W MY 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

Sikagard®-670W MY has the following properties:

- 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

## Tests

### Approval / Standard

- EMPA (Federal Material Testing Laboratory), Dübendorf, Switzerland: Certificate for use in Tunnelling
- LPM (Laboratory for Preparation and Methodology), Beinwil am See, Switzerland: Certificate for use as system
- Taywood Engineering Limited:
  - Determination of Carbon Dioxide Diffusion Resistance
  - Determination of Moisture Vapour Transmission Rate
- SETSCO: Rapid Chloride Permeability

## Product Data

### Form

### Appearance / Colours

Standard colours include:  
Pebble Grey (~ RAL 7032), Light Grey (~ RAL 7035) and White (~ RAL 9010)  
Non-standard colours are also available upon request.

### Packaging

20 ltr pails and 200 ltr drums (~ RAL 7032 and ~ RAL 7035)



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## Storage

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**Storage Conditions / Shelf Life** 2 years from the date of production when stored in original unopened packaging in a cool, dry place

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## Technical Data

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**Density (at 20°C)** ~ 1.3 kg/ltr

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**Solid Content** ~ 45% by volume / ~ 60% by weight

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**Diffusion Resistance**

- Carbon Dioxide Diffusion Coefficient ( $\mu\text{CO}_2$ ) > 1,200,000
- Water Vapour Diffusion Coefficient ( $\mu\text{H}_2\text{O}$ ) > 1,000

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**Rapid Chloride Permeability** Test results indicate that Sikagard®-670W MY combined with Sikagard®-700 S improves the resistance to chloride permeability by as much as 10 times.

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## System Information

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### Application Details

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**Material Consumption** 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 S (0.2 kg/m<sup>2</sup> is recommended).

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**Substrate Preparations** The substrate must be free of 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 overcoated after 7 days.

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**Priming**

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

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### Application Conditions / Limitations

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**Substrate and Application Temperature** +8°C min. / +35°C max.  
At rising temperatures, do not apply to concrete substrates without pore sealer.

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**Relative Air Humidity** Maximum humidity is 80%, observe dew point.

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### Application Instructions

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**Mixing** Sikagard®-670W MY is supplied ready to use. However, before applying, the material must be thoroughly stirred mechanically.

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**Application Method / Tools** Sikagard®-670W MY 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°.

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

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**Waiting Time / Overcoatability**

- Between Sikagard®-700 S and following coats: 5 hours min. / 1 week max.
- Between Sikagard®-680 S Transparent and Sikagard®-670W MY: 8 hours min.

Temperature	Minimum between coats	Rain resistant	Final drying
+23°C	~ 30 minutes	~ 60 minutes	~ 4 hours
+30°C	~ 20 minutes	~ 40 minutes	~ 3 hours

**Value Base**

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.

**Health and Safety Information**

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

**Legal Note**

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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