

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-407 W

Single component, water-based, PU-acrylic hybrid resin coating for walls and ceilings with a gloss finish.

## PRODUCT DESCRIPTION

Sikagard<sup>®</sup>-407 W is a 1-part, water-based, modified acrylic resin coating. It contains an organic in-film preservative and provides a gloss finish.

## USES

Sikagard<sup>®</sup>-407 W may only be used by experienced professionals.

Sikagard<sup>®</sup>-407 W is used as a top coat or standalone coating for walls and ceilings

Sikagard<sup>®</sup>-407 W is used on:

- Concrete
- Bricks
- Gypsum and cement-based substrates
- Metal
- Timber
- Tiles
- Plastic

Please note:

- The Product may only be used for interior applications.
- The Product may only be used by experienced professionals.

## CHARACTERISTICS / ADVANTAGES

- Good resistance to repeated cleaning and disinfection regimes using mild detergents and cleaning solutions
- Tough
- High durability
- Good opacity (covering power)
- Good water vapour permeability
- Low odour
- Seamless
- Easy to clean
- Easy to apply

## PRODUCT INFORMATION

<b>Chemical Base</b>	Waterborne acrylic/ polyurethane copolymer dispersion
<b>Packaging</b>	5 litres (6.35 kg) drums 15 litres (19.05 kg) drums
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	The packaging must be stored properly in closed, sealed and undamaged packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight and frost
<b>Colour</b>	White

Colour	Gloss finish	
Density	1.27 kg/L	(EN ISO 2811-1)
Solid content by mass	48.8%	
Solid content by volume	38.4%	

## TECHNICAL INFORMATION

Tensile Strength	Unreinforced	18 N/mm <sup>2</sup>	(EN ISO 527-2)
Elongation at Break	Unreinforced	50 %	(EN ISO 527-3)
Tensile adhesion strength	> 1.5 N/mm <sup>2</sup> (failure in concrete primed with Sika® Bonding Primer)		(EN 1542)
Chemical Resistance	<p>Disinfection with hydrogen peroxide vapour: Resistant to Bioquell VHP systems.</p> <p>Good short-term resistance to mild acids, alkalis, cleaning agents and disinfectants.</p> <p>Please contact Sika Technical Services for specific information.</p>		

## APPLICATION INFORMATION

Consumption	<p>0.20 kg/m<sup>2</sup> per layer 0.15 L/m<sup>2</sup> per layer</p> <p>Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.</p>																										
Layer Thickness	120 µm																										
Ambient Air Temperature	Maximum	+35 °C																									
	Minimum	+8 °C																									
Relative Air Humidity	Maximum	80 % r.h.																									
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation on the surface of the applied product.																										
Substrate Temperature	Maximum	+35 °C																									
	Minimum	+8 °C																									
Waiting Time / Overcoating	<p>Before applying Sikagard®-407 W on Sikagard®-407 W, allow:</p> <table border="1"> <thead> <tr> <th>Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>4 hours</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>2 hours</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>7 days</td> <td>7 days</td> </tr> </tbody> </table> <p>Before applying Sikagard®-407 W on Sikagard®-403 W, allow:</p> <table border="1"> <thead> <tr> <th>Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>4 hours</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>1 hour</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>1 hour</td> <td>7 days</td> </tr> </tbody> </table> <p>Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.</p>			Temperature	Minimum	Maximum	+10 °C	4 hours	7 days	+20 °C	2 hours	7 days	+30 °C	7 days	7 days	Temperature	Minimum	Maximum	+10 °C	4 hours	7 days	+20 °C	1 hour	7 days	+30 °C	1 hour	7 days
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Temperature	Touch dry	Full cure
+10 °C	8 hours	7 days
+20 °C	4 hours	7 days
+30 °C	3 hours	7 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

## 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### MIXING

**IMPORTANT** Avoid air entrapment. Use an electrical stirrer at low speed (300–400 rpm) to stir the Product until a uniform liquid has been achieved.

### APPLICATION

#### WARNING

Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### IMPORTANT

- Reduced service life may be observed due to incorrect treatment of cracks. The incorrect assessment and treatment of cracks may lead to reduced service life and reflective cracking. For static cracks, ensure the width is suitable for overcoating with Sikagard®-407 W.
- For dynamic cracks, ensure the movement is within the movement capacity of Sikagard®-407 W.
- Excess moisture can cause crazing. Crazing may occur if the coating is applied to undried surfaces. Ensure the entire surface is fully dry before proceeding.
- Allow new concrete substrates to cure or hydrate for a minimum of 10 days, and preferably 28 days.
- Incompatibility with silicone sealants: Do not apply over silicone sealants.
- Application on acoustic boards: Acoustic boards may lose their acoustic absorption properties after coating.
- Do not thin or brush out like conventional paints
- Gloss finish may vary
- The gloss of the finish can vary with temperature, humidity and the substrate's absorbency.
- **ROLLER APPLICATION:** For aesthetic reasons, use the same roller type in the same areas. Apply the Product to the correct film thickness per layer with a short-pile roller.
- **AIRLESS SPRAY APPLICATION:** This method produces a smoother surface than the roller application.
- Use the same application type in the same areas. Apply the Product to the correct film thickness per layer with airless spraying application equipment, using tip sizes from 0.38 to 0.53 mm and a fan angle from 40° to 60°.

### CLEANING OF TOOLS

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

## 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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