

PRODUCT DATA SHEET

Sikagard®-403 W

Antimicrobial, 1-part, water-based, acrylic resin coating for walls and ceilings

PRODUCT DESCRIPTION

Sikagard®-403 W is a 1-part, water-based, modified acrylic resin for intermediate and surface coating. It contains an antimicrobial additive.

USES

Sikagard®-403 W installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikagard®-403 W is used as a:

- Embedment, intermediate and top coat for walls and ceilings

Sikagard®-403 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

- Seamless
- Easy to clean
- Good resistance to repeated cleaning and disinfection regimes using mild detergents and cleaning solutions
- Tough
- High durability
- Good water vapour permeability
- More flexible in comparison to standard acrylic paints
- Improved resistance to cracking and flaking in com-

- parison to standard acrylic paints
- Ultra-low VOC emissions
- Good opacity (covering power)
- Low odour
- Easy to apply

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4
- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- French regulation on indoor VOC emissions class A+

APPROVALS / STANDARDS

- Biological Resistance BS3900-G6, SikaGard®-403W, IMSL, Report No. IMSL 2014/12/0
- Crack-bridging test EN 1062-7, SikaGard®-403W, kiwa, Report No. P 10108-E
- Gloss, Fineness of Grind, Wet Scrub Resistance, Contrast Ratio tests EN 13300, S
- Taint test SikaGard®-403W, Campden BRI, Report No. S/REP/139540/1
- Vapour permeability EN 7783-1, SikaGard®-403W, 4ward, Certificate No. PO 4500 49
- Vapour permeability EN 7783-1, SikaGard®-403W, Certificate No. L117647

PRODUCT INFORMATION

Chemical Base	Styrene-acrylic copolymer dispersion, water-based	
Packaging	One Part Container	15 L (19.8 kg) drums
Colour	Cured colour	White, pastel colour shades on request
Shelf Life	12 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost. Always refer to the packaging.	
Density	1.34 kg/L	(EN ISO 2811-1)
Solid content by mass	47 %	
Solid content by volume	61 %	

TECHNICAL INFORMATION

Tensile Strength	Unreinforced	2.8 N/mm ²	(EN ISO 527-2)																				
Elongation at Break	Unreinforced	90 %	(EN ISO 527-3)																				
Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete primed with Sika® Bonding Primer)		(EN 1542)																				
Chemical Resistance	<p>Good short-term resistance to mild acids, alkalis, cleaning agents and disinfectants. Please contact Sika Technical Services for specific information.</p> <p>Disinfection with hydrogen peroxide vapour:</p> <ul style="list-style-type: none"> ▪ Resistant when using STERIS VHP technology. ▪ Resistant to PEA vaporisation technology if a system structure with glass fibre reinforcement is used. ▪ Resistant when using Oxypharm vaporiser type NOCOSPRAY under the following conditions: <p>Table title</p> <table> <tr> <th>Disinfectant</th><th>Concentration</th><th>Setting at vaporiser</th><th>Contact time</th></tr> <tr> <td>NOCOLYSE Mint (6 %)</td><td>1 ml/m³</td><td>20 m³ (1.5 min vaporisation)</td><td>30 min</td></tr> <tr> <td>NOCOLYSE One Shot (12 %)</td><td>3 ml/m³ (2 cycles)</td><td>45 m³ (5 min vaporisation)</td><td>30 min</td></tr> <tr> <td>NOCOLYSE Food (7.9 %)</td><td>1 ml/m³</td><td>20 m³ (1.5 min vaporisation)</td><td>30 min</td></tr> <tr> <td>NOCOLYSE Food (7.9 %)</td><td>5 ml/m³ (2 cycles)</td><td>75 m³ (5 min vaporisation)</td><td>60 min</td></tr> </table>			Disinfectant	Concentration	Setting at vaporiser	Contact time	NOCOLYSE Mint (6 %)	1 ml/m ³	20 m ³ (1.5 min vaporisation)	30 min	NOCOLYSE One Shot (12 %)	3 ml/m ³ (2 cycles)	45 m ³ (5 min vaporisation)	30 min	NOCOLYSE Food (7.9 %)	1 ml/m ³	20 m ³ (1.5 min vaporisation)	30 min	NOCOLYSE Food (7.9 %)	5 ml/m ³ (2 cycles)	75 m ³ (5 min vaporisation)	60 min
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APPLICATION INFORMATION

Consumption	Unreinforced	0.28 kg/m ² per layer
	Reinforced with Sika® Reemat Premium	0.80 kg/m ² per layer
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.		
Layer Thickness	Wet film thickness unreinforced	200 µm per layer
	Dry film thickness unreinforced	100 µm per layer
Product Temperature	Maximum	+35 °C
	Minimum	+8 °C
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
Substrate Moisture Content	Visibly damp-free	
Waiting Time / Overcoating	Before applying Sikagard®-403 W on Sikagard®-403 W, allow:	
	Temperature	Minimum
	+10 °C	4 hours
	+20 °C	2 hours
	+30 °C	1 hour
	Before applying 2-part top coats, allow:	
	Temperature	Minimum
	+10 °C	16 hours
	+20 °C	8 hours
	+30 °C	4 hours
	Maximum	Maximum
		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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regula-

tions. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

MIXING

1. **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.

1. Do not breathe spray or mist.

IMPORTANT

Reduced service life due to incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

1. For static cracks, ensure the width is suitable for overcoating with Sikagard®-403 W.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikagard®-403 W.

IMPORTANT

Risk of crazing due to excess moisture

Crazing may occur if coating undried surfaces.

1. Ensure the entire surface is fully dry before proceeding.
2. Allow new concrete substrates to cure or hydrate for a minimum of 10 days, and preferably 28 days.

IMPORTANT

Application on acoustic boards

Acoustic boards may lose some acoustic absorption after coating.

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

IMPORTANT

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Surface profile due to reinforcement

Note: A slightly rough surface profile will be visible if the Product is reinforced with Sika® Reemat Premium.

ROLLER APPLICATION

1. **IMPORTANT** 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 leads to a smoother surface compared to roller application.

1. **IMPORTANT** Use the same application type in the same areas. Apply the Product to the correct film thickness per layer with airless spraying application equipment, use tip sizes from 0.38–0.53 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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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

Sikagard®-403 W

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