

BUILDING TRUST

PRODUCT DATA SHEET

Sikagard[®]-403 W

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

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 may only be used by experienced professionals.

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 comparison to standard acrylic paints

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- 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

Composition	Styrene-acrylic copolymer dispersion, water-based				
Packaging	One Part Container	5 L (6.6 kg) drums or 15 L (19.8 kg) drums			
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.				
Colour	Cured colour	White, pastel colour shades on re- quest			
Density	1.34 kg/L	(EN ISO 2811-1)			
Solid content by weight	47 %				
Solid content by volume	61 %				

TECHNICAL INFORMATION

Tensile Strength	Unreinforced	2.8 N/n	1m²	(EN ISO 527-2)	
Elongation at Break	Unreinforced	90 %		(EN ISO 527-3)	
Tensile Adhesion Strength	 > 1.5 N/mm² (failure in concrete primed with Sika[®] Bonding Primer) 				
Permeability to Water Vapour	37.5 g/m ² in 24 hours (EN ISO 7783				
Chemical Resistance	Good short-term r fectants. Please co Disinfection with r Resistant when Resistant to PEA fibre reinforcerr Resistant when following condit	ng agents and disin- ific information. structure with glass DSPRAY under the			
	Disinfectant	Concentration	Setting at vapor- iser	Contact time	
	NOCOLYSE Mint (6 %)	1 ml/m³	20 m ³ (1.5 min vaporisation)	30 min	
	NOCOLYSE One Shot (12 %)	3 ml/m ³ (2 cycles) 45 m ³ (5 min va-	30 min	
	NOCOLYSE Food (7.9 %)	1 ml/m³	20 m ³ (1.5 min vaporisation)	30 min	
	NOCOLYSE Food (7.9 %)	5 ml/m ³ (2 cycles) 75 m ³ (5 min va- porisation)	60 min	

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APPLICATION INFORMATION

Consumption	Unreinforced	Unreinforced		0.28 kg/m ² per laver		
	Reinforced with Sik Premium	Reinforced with Sika [®] Reemat Premium		0.80 kg/m ² per layer		
	Note: Consumption data is theoretical and does not allow for any addition- al material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calcu- late the exact consumption for the specific substrate conditions and pro- posed application equipment.					
Laver Thickness	Wet film thickness	Wet film thickness unreinforced		200 μm per layer		
	Dry film thickness u	Dry film thickness unreinforced		100 μm per layer		
Product Temperature	Maximum	Maximum		+35 °C		
	Minimum		+8 °C	+8 °C		
Ambient Air Temperature	Maximum	Maximum		+35 °C		
	Minimum	Minimum +8		+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	Maximum +35		 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	า	Maximum		
	+10 °C	4 hours		7 days		
	+20 °C	2 hours		7 days		
	+30 °C	1 hour		7 days		
	Before applying 2-part top coats, allow:					
	Temperature	Minimum	ı	Maximum		
	+10 °C	16 hours		7 days		
	+20 °C	8 hours		7 days		
	+30 °C	4 hours		7 days		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.					

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

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

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.

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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.
- 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 CO_2 and H_2O 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

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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