

# PRODUCT DATA SHEET

## Sikagard®-403 W

SINGLE COMPONENT, WATERBORNE, MODIFIED ACRYLIC RESIN  
WALL COATING

### DESCRIPTION

Sikagard®-403 W is a single component, waterborne modified acrylic resin based intermediate and surface coating, containing an antimicrobial additive.

### USES

Sikagard®-403 W may only be used by experienced professionals.

- Application on concrete, bricks, cement and gypsum based substrates, metal surfaces, timber, tiles and plastic
- Embedment, intermediate and top coat for internal walls and ceilings
- Suitable for production facilities in the pharmaceutical, medical engineering, food and beverage industry, as well as, hospitals, prisons, healthcare and leisure facilities

### CHARACTERISTICS / ADVANTAGES

- Seamless, easy to clean finish
- Good resistance to repeated cleaning regimes using mild detergents and cleaning solutions
- Tough and highly durable
- Good water vapour permeability
- Flexible in comparison to standard acrylic paints, resists to cracking and flaking
- Ultra low emissions
- Good opacity
- Odourless
- Easy to apply

### ENVIRONMENTAL INFORMATION

#### LEED Rating

According USGBC LEED Rating Sikagard®-403 W conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100g/l

### APPROVALS / STANDARDS

- Eurofins, test report No. 392-2014-0027 0301, VOC emission acc. French. Reulations Decret DEVL 11019093D, March 23, 2011 and Decret DEVL 11034675A, April 19, 2011.
- PRA, test report No. 77388-004, gloss, fineness, grind wet scrub resistance and contrast ratio acc. EN 13300, June 15th 2001.
- Exova Warringtonfire, test report No. WF 343711, classification reaction to fire acc. according EN 13501-1:2007+A1:2009, March 30th 2007 November 2008.
- IMSL, test report No. 2014/02/011.1A-1, determination of antibacterial activity acc. ISO 22196, August 30th 2011.
- 4wardtesting, test report No. C2882, water vapour transmission rate and water vapour permeability acc. ISO 7783-1:2000 (superseded by EN ISO 7783:2011, November 30th 2011).
- Eurofins, test report No. 392-2015-00292201, determination of VOC and SVOC content according ISO 11890-2, CEPE/EC/2015-04-13 and Commission Decision 2014/312/EU, May 28th 2014

## PRODUCT INFORMATION

<b>Chemical Base</b>	Styrene-acrylic Copolymer Dispersion, waterborne	
<b>Packaging</b>	5.0 l = 6.60 kg drums 15.0 l = 19.80 kg drums	
<b>Appearance / Colour</b>	white pastel colour shades on request	
<b>Shelf Life</b>	12 month from date of production	
<b>Storage Conditions</b>	From date of production if 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>Density</b>	approx. 1.34 kg/l Density values determined at +23°C	(EN ISO 2811-1)
<b>Solid content by weight</b>	~61%	
<b>Solid content by volume</b>	~47%	

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	2.8 N/mm <sup>2</sup> unreinforced	(EN ISO 527-3)
<b>Elongation at Break</b>	90 % unreinforced	(EN ISO 527-3)
<b>Tensile Adhesion Strength</b>	<1.5 N/mm <sup>2</sup>	ISO 4624
<b>Chemical Resistance</b>	Mild detergents and cleaning agents. Please contact Sika technical service for specific information.	
<b>Permeability to Water Vapour</b>	approx. 37.5 g/m <sup>2</sup> in 24 hours	EN ISO 7783-1

## APPLICATION INFORMATION

<b>Consumption</b>	approx. 0.28 kg/m <sup>2</sup> per layer unreinforced approx. 0.40 kg/m <sup>2</sup> per layer for reinforcement with Sika Reemat Premium	
<b>Layer Thickness</b>	wet film thickness	approx. 200 µm per layer unreinforced
	dry film thickness	approx. 100 µm per layer unreinforced
<b>Ambient Air Temperature</b>	+8°C ... +35°C	
<b>Relative Air Humidity</b>	≤ 80%	
<b>Substrate Temperature</b>	+8°C ... +35°C ≥3°C above dew point, beware of condensation	
<b>Substrate Moisture Content</b>	Visible damp free	
<b>Curing Time</b>	Before overcoating with Sikagard®-403 W	
	<b>Temperature</b>	<b>Minimum</b> <b>Maximum</b>
	+10°C	4 hours      7 days
	+20°C	2 hours      7 days
	+30°C	1 hour      7 days
	Before overcoating with 2-comp. top coats	
	<b>Temperature</b>	<b>Minimum</b> <b>Maximum</b>
	+10°C	16 hours      7 days
	+20°C	8 hours      7 days
	+30°C	4 hours      7 days

## APPLICATION INSTRUCTIONS

Stir product mechanically until a uniform liquid has been achieved.

Use a low speed electrical stirrer (300-400 rpm) to avoid air entrapment.

For roller application use short piled roller. For airless application use tip sizes from 0.38 to 0.53mm/ angle 40° to 60°.

## CLEANING OF TOOLS

Clean all tools with water immediately after use.

Hardened and/or cured material can only be removed mechanically.

## LIMITATIONS

Each type of roller will give a slightly different surface finish – always use same roller type in same areas. Ensure entire surface is fully dried before over coating. Cracking may occur when over coating un-dried areas. Always ensure good ventilation when application takes place in a confined space to ensure drying. The incorrect treatment of cracks may lead to a reduced service life and reflective cracking. Do not apply near food-stuffs in unventilated conditions, always ensure ventilation. Acoustic insulation boards may lose some acoustic absorption properties.

## 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.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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.

## DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type wb) is 140 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikagard®-403 W is <140 g/l VOC for the ready to use product.

## 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.

### Sika Services AG

Tüffenwies 16

8048 Zürich

Tel: +41 58 436 4040

www.sika.com



Sikagard-403W\_en\_(03-2016)\_1\_1.pdf

### PRODUCT DATA SHEET

Sikagard®-403 W

March 2016, Version 01.01

ID No.: 020813020020000013