

PRODUCT DATA SHEET

Sikagard®-403 W

SINGLE COMPONENT, WATERBORNE, MODIFIED ACRYLIC RESIN WALL COATING

PRODUCT 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
- More flexible in comparison to standard acrylic paints, improves resistance to cracking and flaking
- Ultra-low emissions
- Good opacity
- Odourless
- Easy to apply

ENVIRONMENTAL INFORMATION

LEED Rating

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

APPROVALS / STANDARDS

- Eurofins, test report No. 392-2014-0027 0301, VOC emission acc. French Regulations Decret DEVL 11019093D, March 23, 2011 and Decret DEVL 11034675A, February 15, 2016.
- PRA, test report No. 77388-004, gloss, fineness, grind wet scrub resistance and contrast ratio according to EN 13300, September 30, 2014.
- Exova Warringtonfire, test report No. WF 343711, classification reaction to fire according to EN 13501-1:2007+A1:2009, September 15, 2014.
- IMSL, test report No. 2014/02/011.1A-1, determination of antibacterial activity according to ISO 22196, December 29th 2014.
- IMSL, test report No. 2014/12/009.2A, determination of resistance of surface coatings to mould growth according to BS 3900, Part G6, April 21, 2015
- 4wardtesting, test report No. C2882, water vapour transmission rate and water vapour permeability according to ISO 7783-1:2000 (superseded by EN ISO 7783:2011, November 30, 2011), August 29, 2014.
- 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, October 6, 2015
- KIWA GmbH Polymer Institute, test report P10108-E, determination of crack bridging properties according to DIN EN 1062-7, April 12, 2016
- Campden BRI Group, test report No. S/REP/139540/1Sensory Evaluation of the Taint Potential, Triangle Test Method TES -S-002, Odour Transfer Method, July 15, 2016

PRODUCT INFORMATION

Chemical Base	Styrene-acrylic copolymer dispersion, waterborne
Packaging	5.0 l = 6.60 kg drums 15.0 l = 19.80 kg drums
Appearance / Colour	Available colours BS08B15, BS12B21, BS14C31, BS18E49, BS18E50, RAL1013, RAL3015, RAL7035, RAL9001, White
Shelf Life	12 months from date of production
Storage Conditions	Store in closed, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.
Density	~1.34 kg/l (+23 °C) (EN ISO 2811-1)
Solid content by weight	~61 %
Solid content by volume	~47 %

TECHNICAL INFORMATION

Tensile Strength	~2.8 N/mm ² unreinforced (EN ISO 527-3)
Elongation at Break	~90 % unreinforced (EN ISO 527-3)
Tensile adhesion strength	> 1.5 N/mm ² to concrete primed with Sika Bonding Primer (ISO 4624)

Chemical Resistance Resistant to mild detergents and cleaning agents. Please contact Sika technical service for specific information.

Disinfection with Hydrogen Peroxide Vapour:

- Resistant when using Steris VHP technology
- Resistant to PEA vaporisation technology, when a system build up with glass fibre reinforcement is used
- Resistant when using Oxypharm vaporiser type NOCOSPRAY under following conditions:

Disinfectant	Concentration	Setting at vaporiser	Contact time
NOCOLYSE Mint (6 %)	1 ml/m ³	20 m ³ (1.5 minutes vaporisation)	30 min
NOCOLYSE One Shot (12 %)	3 ml/m ³ (2 cycles)	45m ³ (5 minutes vaporisation)	30 min
NOCOLYSE Food (7.9 %)	1 ml/m ³	20 m ³ (1.5 minutes vaporisation)	30 min
NOCOLYSE Food (7.9 %)	5 ml/m ³ (2 cycles)	75m ³ (5 minutes vaporisation)	60 min

Permeability to Water Vapour ~37.5 g/m² in 24 hours (EN ISO 7783-1)

APPLICATION INFORMATION

Consumption	~0.28 kg/m ² per layer unreinforced ~0.80 kg/m ² per layer for reinforcement with Sika Reemat Premium
Layer Thickness	Wet film thickness ~200 µm per layer unreinforced Dry film thickness ~100 µm per layer unreinforced
Product Temperature	+8 °C min. / +35 °C max.

Ambient Air Temperature	+8 °C min. / +35 °C max.		
Relative Air Humidity	< 80 %		
Dew Point	Beware of condensation substrate temperature must be at least +3 °C above dew point		
Substrate Temperature	+8 °C min. / +35 °C max.		
Substrate Moisture Content	Visible damp free		
Curing Time	Before overcoating with Sikagard®-403 W		
	Temperature	Minimum	Maximum
	+10 °C	4 hours	7 days
	+20 °C	2 hours	7 days
	+30 °C	1 hour	7 days
	Before overcoating with 2-component top coats		
	Temperature	Minimum	Maximum
	+10 °C	16 hours	7 days
	+20 °C	8 hours	7 days
	+30 °C	4 hours	7 days

APPLICATION INSTRUCTIONS

APPLICATION

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 0.53 mm and angle from 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.
- Airless spray will lead to a surface smoother than roller applied areas, use same application type in same areas
- When applied with Sika Reemat Premium a slight surface texture will stay visible
- 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 foodstuffs in unventilated conditions, always ensure ventilation.
- Acoustic insulation boards may lose some acoustic absorption properties.

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.

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.

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.

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Product Data Sheet

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