

SYSTEM DATA SHEET

Sikagard® WallCoat AL-12 Hygienic

Single component, low emitting, reinforced, waterborne, high impact resistant, acrylic resin wall coating system

PRODUCT DESCRIPTION

Sikagard® WallCoat AL-12 Hygienic is an acrylic water based coloured resin and glass fibre reinforced wall coating system with excellent crack bridging properties and high impact resistance. Thickness ~400–450 µm. Internal use.

USES

Sikagard® WallCoat AL-12 Hygienic may only be used by experienced professionals.

- Application on concrete, bricks, cement and gypsum based substrates, metal surfaces, timber, tiles and plastic
- Suitable for production facilities in the pharmaceutical, medical engineering, food and beverage industry, hospitals, prisons, healthcare and leisure facilities

CHARACTERISTICS / ADVANTAGES

- Seamless, easy to clean finish
- Low emission of VOC
- Excellent resistance to repeated cleaning regimes using mild detergents and cleaning solutions
- Tough and highly durable
- Good impact resistance
- Crack bridging, improved resistance to cracking and flaking
- Solvent free
- Good opacity
- Odourless
- Easy to apply

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations - Sikagard®-403 W
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients - Sikagard®-403 W
- IBU Environmental Product Declaration (EPD) available - Sikagard®-403 W
- Class A+ according to French Regulation on VOC emissions - Sikagard®-405 W

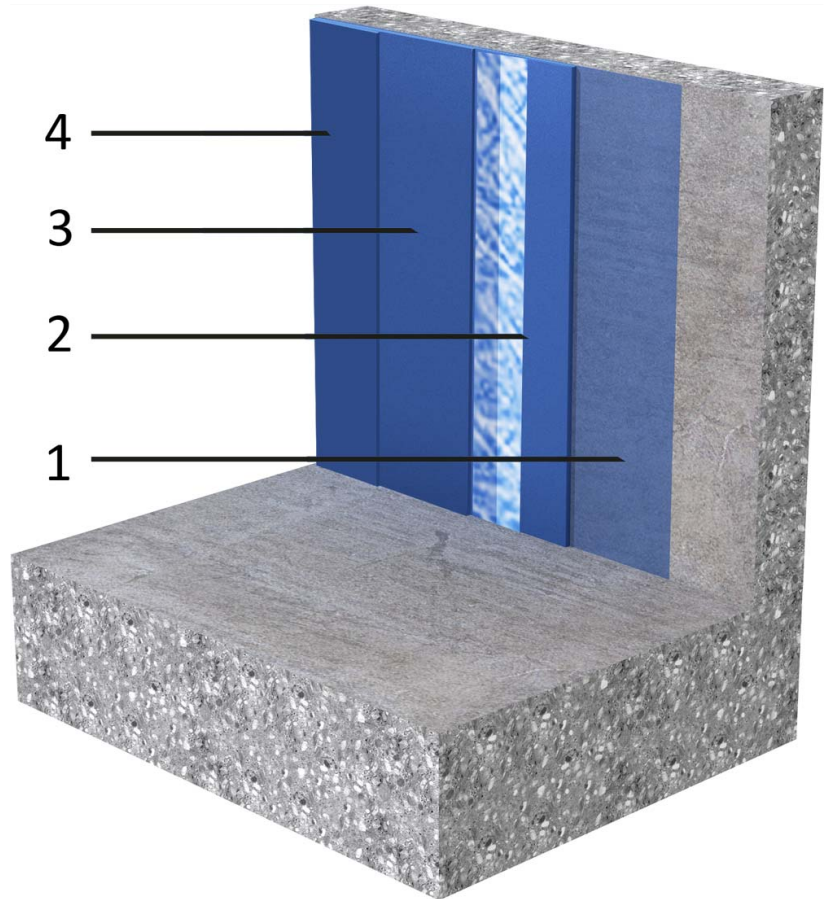
APPROVALS / STANDARDS

- Biological Resistance ISO 22196, SikaGard®-405 W, IMSL, Report No. IMSL 2015/02/004.1A
- Biological Resistance ISO 22196, SikaGard®-406 W, IMSL, Report No. IMSL 2015/02/004.1A
- Crack-bridging test EN 1062-7, SikaGard®-403 W, kiwa, Report No. P 10108-E
- Triangle test EN 4120, SikaGard®-405 W, Campden BRI, Report No. S/REP/138532/1
- Triangle test EN 4120, SikaGard®-406 W, Campden BRI, Report No. S/REP/138532/2
- VOC emissions DEVL1101903D, SikaGard®-406W, TÜV, Report No. 21246824 001
- VOC emissions ISO 11890-2, SikaGard®-405 W, eurofins, Report No. 392-2015-00386901
- VOC emissions ISO 11890-2, SikaGard®-406 W, eurofins, Report No. 392-2015-00386902

SYSTEM INFORMATION

System Structure

Sikagard® WallCoat AL-12 Hygienic



Layer	Product
1. Primer	Sika® Bonding Primer
2. 1 st intermediate coat	Sikagard®-403 W + Reemat Premium
3. 2 nd intermediate coat	Sikagard®-403 W + Reemat Lite
4. Top coats	Sikagard®-405 W, or Sikagard®-406 W, or Sikagard®-407 W

Composition	Acrylic Copolymer Dispersion, waterborne	
Appearance	Top Coat	Appearance
	Sikagard®-405 W	mid-sheen
	Sikagard®-406 W	matt
	Sikagard®-407 W	gloss
Colour	Standard colour: white. Other colours are available on request.	
Nominal thickness	~400–450 µm	

TECHNICAL INFORMATION

Crack Bridging Ability	Class A3 (static)	(EN ISO 1062-7)
Reaction to Fire	C-s1, d0	(EN 13501-1)

Chemical Resistance

Chemically resistant to weak acids, alkalis, cleaning agents and disinfectants. Contact Sika Technical Service for additional information.

Disinfection with vaporised Hydrogen Peroxide

- Resistant when using STERIS® VHP Technology
- Resistant to PEA vaporisation technology up to max. 8 hours

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

- Resistant to disinfection of hydrogen peroxide vapour of Bioquell VHP systems (only in case Sikagard®-407 W is used as a top coat)

APPLICATION INFORMATION

Consumption	Coating System	Product	Consumption
	1. Primer	Sika® Bonding Primer	~0.10 kg/m ² (~0.1L/m ²)
	2. Intermediate	Sikagard®-403 W + Reemat Premium	~0.80 kg/m ² (~0.6L/m ²)
	3. Intermediate	Sikagard®-403 W + Reemat Lite	~0.40 kg/m ² (~0.3L/m ²)
	4. Top Coat	Sikagard®-405 W, or Sikagard®-406 W, or Sikagard®-407 W	~0.20 kg/m ² per layer* (~0.1L/m ²)

* A minimum of 2 layers is recommended.

Product Temperature	+8 °C min. / +35 °C max.												
Ambient Air Temperature	+8 °C min. / +35 °C max.												
Relative Air Humidity	≤ 80 %												
Dew Point	Minimumn 3 °C above dew point Beware of condensation												
Substrate Temperature	+8 °C min. / +35 °C max.												
Substrate Moisture Content	Substrate shall be visible dry, no rinsing water												
Waiting Time / Overcoating	Between application of the different layers, allow: <table border="1"> <thead> <tr> <th>Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+ 10 °C</td> <td>4 h</td> <td>7 d</td> </tr> <tr> <td>+ 20 °C</td> <td>2 h</td> <td>7 d</td> </tr> <tr> <td>+ 30 °C</td> <td>1 h</td> <td>7 d</td> </tr> </tbody> </table>	Temperature	Minimum	Maximum	+ 10 °C	4 h	7 d	+ 20 °C	2 h	7 d	+ 30 °C	1 h	7 d
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Applied Product Ready for Use	Minimum 72 hours at +20 °C Lower temperatures may lead to longer curing times.												

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.

LIMITATIONS

- After application, Sikagard® WallCoat AL-12 Hygienic must be protected from damp, condensation and direct water contact for at least 24 hours.
- Always ensure adequate fresh air ventilation during application and curing time.
- When using critical colour shades, i.e. yellow, orange, red or similar the application of multiple layers may be necessary to ensure sufficient opacity.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective surface cracking.
- Do not apply over silicone sealants.
- For exact colour matching ensure the Sikagard® WallCoat AL-12 Hygienic in each area is applied from the same control batch numbers.
- Each method of application will leave a different surface finish. Do not mix application methods within the same area.
- Each type of roller will result in a slightly different surface texture. Always use same roller type in same areas.
- Ensure the preceding layer is fully cured before overcoating.
- Surface crazing may occur if overcoating is carried out on insufficiently dried areas.
- Acoustic insulation boards if coated may experience reduced acoustic absorption properties.

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.

MAINTENANCE

Coating system can be maintained by overcoating if surface becomes contaminated by dirt which cannot be removed or by liquids which damage the surface. Overcoating is carried out by lightly abrading the top coat surface and recoating with one or two layers of the relevant top coat.

CLEANING

The top coat of the system is tested in accordance to EN 11998:2006, wet scrub resistance. According to EN 13300 the product is classified in class 1. The surface can be cleaned with a wet sponge, using mild detergents, and rewashed with clean water.

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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