

## SYSTEM DATA SHEET

# Sikagard® Wallcoat AL-12 Hygienic

WATERBORNE, LOW EMITTING, HIGH IMPACT RESISTANT, ACRYLIC RESIN BASED WALLCOATING SYSTEM

### PRODUCT DESCRIPTION

Sikagard® Wallcoat AL-12 Hygienic is a wallcoating system based on waterborne acrylic resin and glass fibre reinforced with excellent crack bridging properties and high impact stress resistance.

### 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 food and beverage industry, pharmaceutical industry, medical engineering, hospitals, prisons, healthcare and leisure facilities.

### CHARACTERISTICS / ADVANTAGES

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

### ENVIRONMENTAL INFORMATION

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

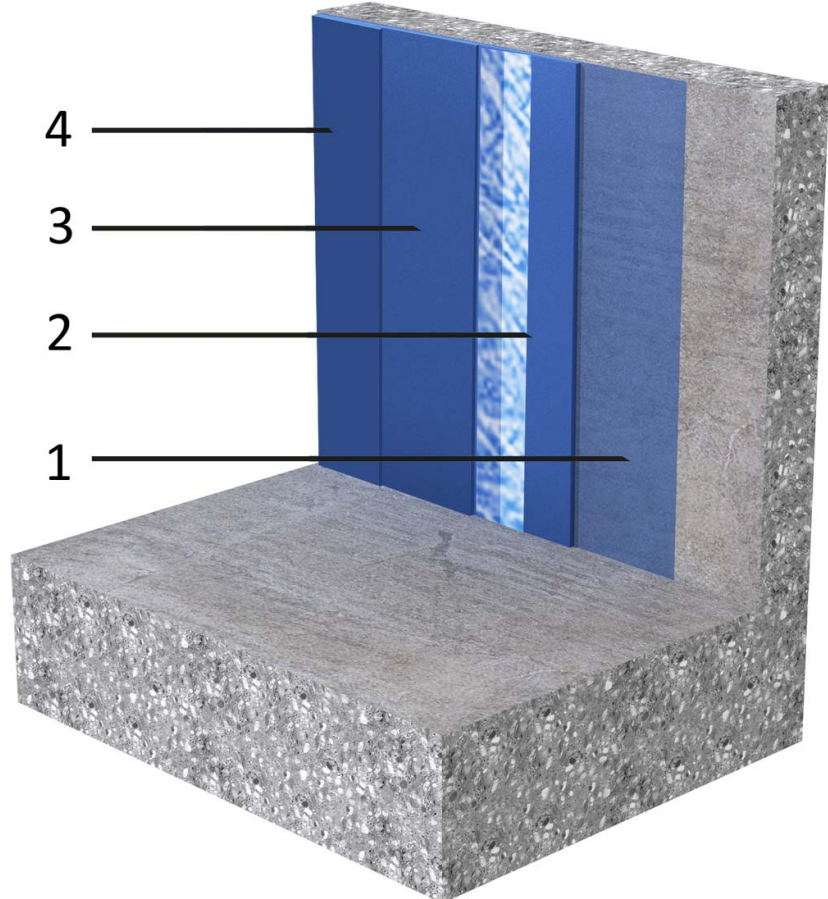
### APPROVALS / STANDARDS

- Test Institute Hoch, test report No. KB-Hoch-160714, classification reaction to fire acc. EN13501-1, June 2016
- IMSL, test report, determination of antibacterial activity acc. ISO 22196, see Product Data Sheet of product used as top coat
- KIWA, Test report No.: P 10108, determination of crack bridging properties acc. EN 1062-7, April 2016
- PRA, Test report, gloss fineness, grind wet scrub resistance and contrast ratio acc. EN 13300, see Product Data Sheet of product used as top coat
- IMSL, test report, determination of resistance of surface coatings to mould growth acc. BS 3900 Part G6, see Product Data Sheet used as top coat
- Camden BRI, sensory evaluation of chocolate to test the taint potential, using the triangle test acc. TES-002 odour transfer method, see Product Data Sheet of product used as top coat

# SYSTEM INFORMATION

## System Structure

## Sikagard® Wallcoat AL-12 Hygienic



Layer	Product
1. Primer/ Base coat	Sika® Bonding Primer or Sikagard®-403 W + 5 % water by weight
2. 1 <sup>st</sup> intermediate coat	Sikagard®-403 W + Reemat Premium
3. 2 <sup>nd</sup> intermediate coat	Sikagard®-403 W + Reemat Lite
4. Top coat	1–2 × Sikagard®-405 W or 1–2 × Sikagard®-406 W or 1–2 × Sikagard®-207 W

<b>Chemical base</b>	acrylic resin based co-polymer dispersion
<b>Appearance</b>	see Product Data Sheet of top coat
<b>Colour</b>	standard colour: white, others on request
<b>Nominal Thickness</b>	400–450 µm

## TECHNICAL INFORMATION

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

## Chemical Resistance

Good chemical resistance to weak acids, alkalis, cleaning agents and disinfectants. Please contact local Sika Technical Service for specific 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 vapouriser	Contact time
NOCOLYSE® Mint (6 %)	1 ml/m <sup>3</sup>	20 m <sup>3</sup> (1.5min vaporisation)	30 min
NOCOLYSE® ONE S hot (12 %)	3 ml/m <sup>3</sup> (2 cycles)	45 m <sup>3</sup> (5min vaporisation)	30 min
NOCOLYSE® Food (7.9 %)	1 ml/m <sup>3</sup>	20 m <sup>3</sup> (1.5min vaporisation)	30 min
NOCOLYSE® Food (7.9 %)	5 ml/m <sup>3</sup>	75 m <sup>3</sup> (5min vaporisation)	60 min

## Microbiological Resistance

see Product Data Sheet of top coat

## APPLICATION INFORMATION

Consumption	Coating System	Product	Consumption
	1. Primer	Sika® Bonding Primer Sikagard®-403 W + 5 % water	~0.10 kg/m <sup>2</sup> ~0.20 kg/m <sup>2</sup>
	2. Intermediate	Sikagard®-403 W + Reemat Premium	~0.80 kg/m <sup>2</sup>
	3. Intermediate	Sikagard®-403 W + Reemat Lite	~0.40 kg/m <sup>2</sup>
	4. Top Coat	Sikagard®-405 W or Sikagard®-406 W or Sikagard®-207 W	~0.20 kg/m <sup>2</sup>

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	visibly dry, no liquid or rinsing water
Waiting Time / Overcoating	see Product Data Sheet Sikagard®-403 W

## PRODUCT INFORMATION

Packaging	see Product Data Sheet
Shelf Life	see Product Data Sheet
Storage Conditions	see Product Data Sheet

## MAINTENANCE

In case the surface of the coating system has picked up too much dirt and can't be cleaned properly it should be maintained. Same will be necessary if the top coat has been contaminated from liquids penetrating into the surface. The maintenance of the system can easily be done by slightly grinding 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.

## LIMITATIONS

- Freshly applied system shall be protected from damp, condensation and liquid water for at least 24 hours
- Always ensure adequate fresh air ventilation during application and curing time
- With 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 time and reflective cracking
- Do not apply over silicone sealants
- If exact colour matching is required ensure that in each area material from the same control batch number is used
- Each method of application will leave a different surface finish. Do not mix application methods within specific areas
- 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
- Cracking may occur when overcoating insufficiently dried areas
- Acoustic insulation boards may lose some acoustic absorption properties when coated

## 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.

## 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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