

## SYSTEM DATA SHEET

# Sikagard® WallCoat AL-12 Hygienic

### ACRYLIC WATER BASED HIGH IMPACT RESISTANT, 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.

- Suitable for food and beverage production facilities, pharmaceutical and medical industries, hospitals, prisons, healthcare and leisure facilities.

#### Suitable substrates:

- Concrete
- Brickwork
- Cement
- Gypsum
- Metal
- Wood
- Tiles
- Plastic

#### 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

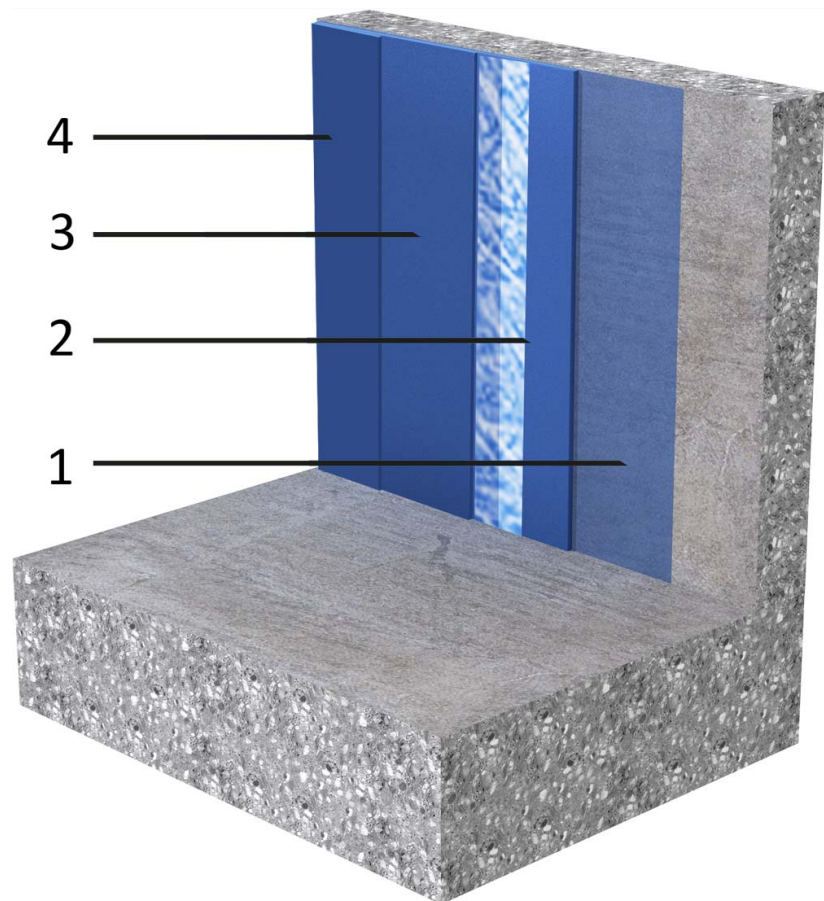
#### APPROVALS / STANDARDS

- 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 <sup>st</sup> intermediate coat	Sikagard®-403 W + Reemat Premium
3. 2 <sup>nd</sup> intermediate coat	Sikagard®-403 W + Reemat Lite
4. Top coats	2 × Sikagard®-405 W or 2 × Sikagard®-406 W

<b>Composition</b>	Acrylic water based resin co-polymer dispersion
<b>Appearance</b>	Refer to related top coat Product Data Sheet
<b>Colour</b>	Standard colour: white. Other colours 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)
<b>Chemical Resistance</b>	Chemically resistant to weak acids, alkalis, cleaning agents and disinfectants. Contact Sika Technical Service for additional information. Disinfection with vaporised Hydrogen Peroxide <ul style="list-style-type: none"> <li>▪ Resistant when using STERIS® VHP Technology</li> <li>▪ Resistant to PEA vapourisation technology up to max. 8 hours</li> </ul>	

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

#### Microbiological Resistance

Refer to related top coat Product Data Sheet

## APPLICATION INFORMATION

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

**Product Temperature** +8 °C min. / +35 °C max.

**Ambient Air Temperature** +8 °C min. / +35 °C max.

**Relative Air Humidity** ≤ 80 %

**Dew Point** Minimum 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** Refer to Sikagard®-403 W Product Data Sheet

## PRODUCT INFORMATION

**Packaging** Refer to the individual Product Data Sheets

**Shelf Life** Refer to the individual Product Data Sheets

**Storage Conditions** Refer to the individual Product Data Sheets

## 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.

## 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.

## 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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