

## SYSTEM DATA SHEET

# Sikagard® Wallcoat AS-11 Hygienic

SINGLE COMPONENT, WATERBORNE, LOW EMITTING, ACRYLIC  
RESIN WALL COATING

### DESCRIPTION

Sikagard® Wallcoat AS-11 Hygienic is a wallcoating system, based on waterborne modified acrylic resin containing an in film preservative to protect the coating from attack and degradation by bacteria, fungi, mould, yeast and algae.

### USES

Sikagard® Wallcoat AS-11 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
- Very low emission of VOC
- Good resistance to repeated cleaning regimes using mild detergents and cleaning solutions
- No degradation of the film caused by bacteria, fungi, mould, yeast and algae
- Tough and highly durable
- Good water vapour permeability
- More flexible in comparison to standard acrylic systems, improves the resistance to cracking and flaking
- Solvent free
- Good opacity
- Odourless
- Easy to apply

### SUSTAINABILITY

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

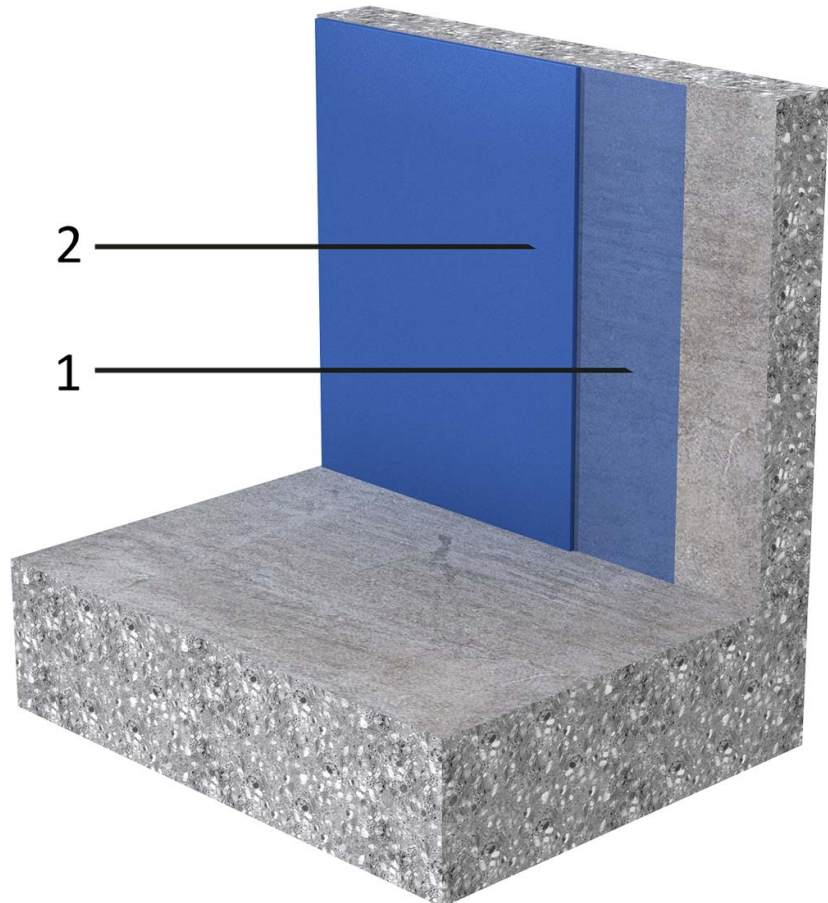
### APPROVALS / STANDARDS

- Eurofins, test report No 392-2014-00270301, VOC emission acc. French regulations 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, September 2014
- Exova Warringtonfire, test report No., classification reaction to fire acc. according EN 13501-1, November 2008
- IMSL, test report No.2014/02/011.1a-1, determination of antibacterial activity acc. ISO 22196, December 2014
- 4wardtesting, test report No.C2882, water vapour transmission rate and water vapour permeability acc. ISO 7783-1, August 2014
- KIWA, test report No.: P 10108, determination of crack bridging properties according EN 1062-7, April 2016
- IMSL, test report No 2014/12/0092A., determination of the resistance of surface coatings to mould growth according BS 3900 Part G6, April 2015
- CampdenBRI, test report No. S/REP/139540/1, sensory evaluation of chocolate to test the taint potential, using the triangle test method according TES-S—002 odour transfer method, July 2016.

# SYSTEMS

System Structure

Sikagard® Wallcoat AS-11 Hygienic



- |                       |                                  |
|-----------------------|----------------------------------|
| 1. Primer / Base coat | Sikagard®-403 W<br>+ 5% wt water |
| 2. Top coat           | Sikagard®-403W                   |

<b>Chemical base</b>	Acrylic Copolymer Dispersion, waterborne
<b>Appearance</b>	matt
<b>Colour</b>	standard colour: white others on request
<b>Nominal Thickness</b>	200 µm–250 µm

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	~2.8 N/mm <sup>2</sup>	(EN ISO 527-3)
<b>Elongation at Break</b>	~90 %	(EN-ISO 527-3)
<b>Crack Bridging Ability</b>	class A2 (up to 0.28mm)	(EN 1062-7)
<b>Reaction to Fire</b>	B-s1, d0	(EN 13501-1)

## Chemical Resistance

Good resistance to mild acids, alkalis, cleaning agents and disinfectants. Please contact local Sika technical service for specific information.

Disinfection with Hydrogen Peroxide Vapor:

- Resistant when using STERIS VHP technology
- Resistant to PEA vaporisation technology according test report PEA, max. 5 hours
- Resistant when using Oxypharm vaporiser NOCOSPRAY® with the following set-up:

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

**Water Vapour Transmission** 37.5 g/m<sup>2</sup> per 24 hours (EN ISO 7783-1 dish method)

## APPLICATION INFORMATION

<b>Consumption</b>	~0.25 kg/m <sup>2</sup> per layer ~0.19 l/m <sup>2</sup> per layer												
<b>Product Temperature</b>	+8 °C min. / +30 °C max.												
<b>Ambient Air Temperature</b>	+8 °C min. / +35 °C max.												
<b>Relative Air Humidity</b>	≤ 80 %												
<b>Dew Point</b>	Beware of condensation! The substrate temperature and uncured material must be at least 3 °C above dew point to reduce risk of condensation												
<b>Substrate Temperature</b>	+8 °C min. / +35 °C max.												
<b>Waiting Time / Overcoating</b>	Between application of first to second layer allow: <table><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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## PRODUCT INFORMATION

<b>Packaging</b>	5.00 L = 6.60 kg drums 15.00 L = 19.80 kg drums
<b>Shelf life</b>	12 months
<b>Storage conditions</b>	Store product properly in closed, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +25 °C. Protect from frost.

## MAINTENANCE

### CLEANING

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

## LIMITATIONS

- Substrate shall be visibly damp free.
- Freshly applied Sikagard® Wallcoat AS-11 Hygienic shall be protected from damp, condensation and water for at least 24 h.
- Always ensure adequate fresh air ventilation while application and curing.
- With light colours, i.e. yellow, orange and red, the application of multiple layers may be necessary to

ensure good opacity.

- The incorrect assessment and treatment of cracks may lead to a reduced service life time and reflective cracking.
- If exact colour matching is required ensure that in each area material from the same control batch number is used.
- Each type of roller will give a slightly different surface finish – always use same roller type in same areas.
- Ensure first layer 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.
- Do not apply near foodstuffs 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. 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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