BUILDING TRUST

SYSTEM DATA SHEET

Sikagard® WallCoat AL-11 Hygienic

Water-based, low-VOC, reinforced acrylic resin wall coating

DESCRIPTION

Sikagard® WallCoat AL-11 Hygienic is a water-based, crack-bridging, modified acrylic resin wall coating system. It contains an in-film preservative to protect the coating from attack and degradation by bacteria, fungi, mould, yeast and algae.

USES

Sikagard® WallCoat AL-11 Hygienic may only be used by experienced professionals.

Sikagard® WallCoat AL-11 Hygienic is used for:
- Pharmaceutical facilities
- Food and beverage facilities
- Healthcare facilities and hospitals
- Leisure and culture facilities such as museums and stadiums
- Prisons

Sikagard® WallCoat AL-11 Hygienic is used on:
- Bricks
- Concrete
- Gypsum and cement-based substrates
- Metal
- Plastic
- Tiles
- Timber

CHARACTERISTICS / ADVANTAGES

- Seamless
- Easy to clean
- Very low VOC emissions
- Good resistance to repeated cleaning and disinfection regimes using mild detergents and cleaning solutions
- Very good resistance to degradation of the film caused by bacteria, fungi, mould, yeast and algae
- Tough
- High durability
- Good water vapour permeability
- Good crack-bridging ability
- Good opacity (covering power)
- Low odour
- Easy to apply

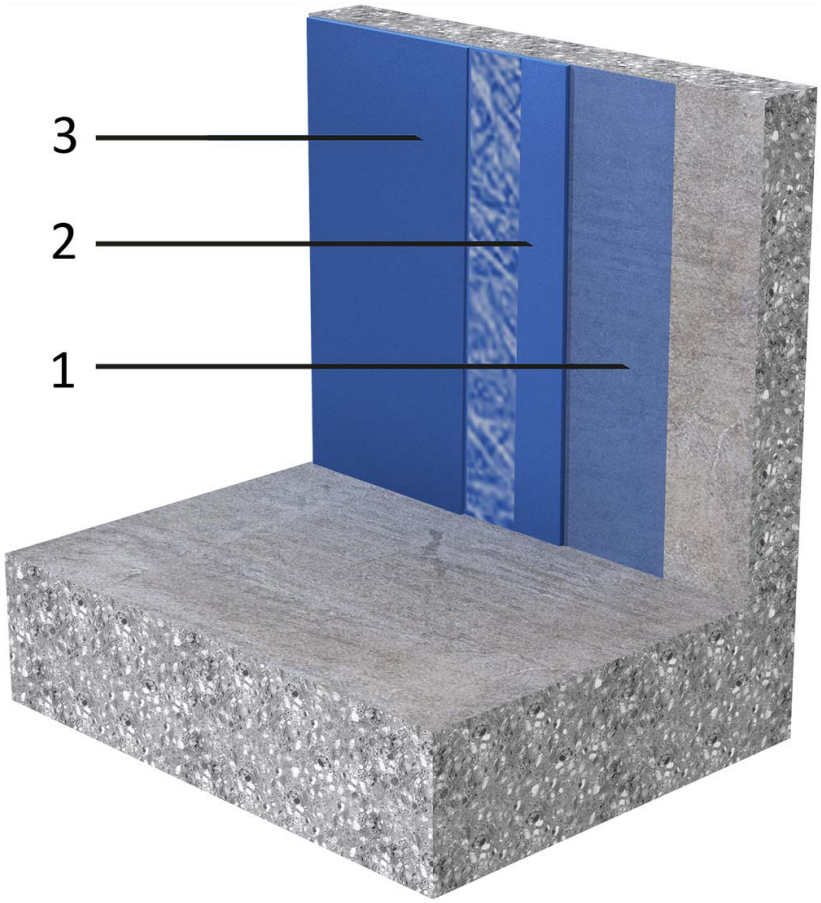
APPROVALS / STANDARDS

- Fire classification report EN 13501-1, Hoch, No. KB-Hoch-160714-2

SYSTEM INFORMATION

System Structure

Sikagard® WallCoat AL-11 Hygienic



	Layer	Product
1.	Primer	Sikagard®-403 W + 5 % water
2.	Intermediate layer	Sikagard®-403 W + Sika® Reemat Lite
3.	Top coat	Sikagard®-405 W (mid sheen) Sikagard®-406 W (matt) Sikagard®-407 W (gloss)

Composition	Acrylic copolymer dispersion, water-based
Appearance	Depends on the top coat, Sikagard®-405 W (mid sheen), Sikagard®-406 W (matt) or Sikagard®-407 W (gloss).
Colour	Standard colour: white, other colours on request
Nominal thickness	250 µm to 300 µm

TECHNICAL INFORMATION

Crack Bridging Ability	Static	Class A2 (up to 0.45 mm)	(EN 1062-7)
Reaction to Fire	Class C-s1, d0		(EN 13501-1)

Chemical Resistance

Good short-term resistance to mild acids, alkalis, cleaning agents and disinfectants. Please contact Sika Technical Services for specific information.
Disinfection with hydrogen peroxide vapour:

- Resistant when using STERIS VHP technology.
- Resistant to PEA vaporisation technology if a system structure with glass fibre reinforcement is used.
- Resistant when using Oxypharm vaporiser type NOCOSPRAY under the following conditions:

Table title

Disinfectant	Concentration	Setting at vaporiser	Contact time
NOCOLYSE Mint (6 %)	1 ml/m³	20 m³ (1.5 min vaporisation)	30 min
NOCOLYSE One Shot (12 %)	3 ml/m³ (2 cycles)	45 m³ (5 min vaporisation)	30 min
NOCOLYSE Food (7.9 %)	1 ml/m³	20 m³ (1.5 min vaporisation)	30 min
NOCOLYSE Food (7.9 %)	5 ml/m³ (2 cycles)	75 m³ (5 min vaporisation)	60 min

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
Primer	Sikagard®-403 W + 5 % water	1 × 0.2 kg/m²
Intermediate layer	Sikagard®-403 W + Sika® Reemat Standard	1 × 0.3 kg/m²
Top coat	Sikagard®-405 W (mid sheen) Sikagard®-406 W (matt) Sikagard®-407 W (gloss)	0.15 kg/m² per coat

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Ambient Air Temperature

Maximum	+35 °C
Minimum	+8 °C

Relative Air Humidity

Maximum	80 % r.h.

Dew Point

Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.

Substrate Temperature

Maximum	+35 °C
Minimum	+8 °C

Substrate Moisture Content

Refer to the individual Product Data Sheet.

Waiting Time / Overcoating

Before applying subsequent layers, allow:

Temperature	Minimum	Maximum
+10 °C	4 hours	7 days
+20 °C	2 hours	7 days
+30 °C	1 hour	7 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

Applied Product Ready for Use

Minimum 72 hours at +20 °C
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

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.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

MAINTENANCE

CLEANING

The top coat of the System is tested in accordance with EN 11998:2006, wet-scrub resistance.
According to EN 13300:2002 the System is classified as being class 1. Clean the System in the following way:

1. Clean the surface of the System using a wet sponge and mild detergent to remove the contamination.
2. Wash the surface thoroughly with clean water.

MAINTENANCE

If the top coat picks up more dirt than can be removed by cleaning, or if the top coat has been contaminated by liquids that have penetrated the surface, the System can be maintained follows:

1. Lightly abrade the surface of the System to remove ingrained contamination.
2. Apply 1–2 layers of the top coat. Refer to individual Product Datasheet.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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