BUILDING TRUST

SYSTEM DATA SHEET

Sikagard® WallCoat AL-11 Hygienic

Single component, low emitting, reinforced, waterborne, acrylic resin wall coating

PRODUCT DESCRIPTION

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

USES

Sikagard® WallCoat AL-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, funghi, mould, yeast and algae
- Tough and highly durable
- Good water vapour permeability
- medium crack brdiging properties due to glass fibre reinforcement
- Solvent free
- Good opacity
- Odourless
- Easy to apply

ENVIRONMENTAL INFORMATION

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

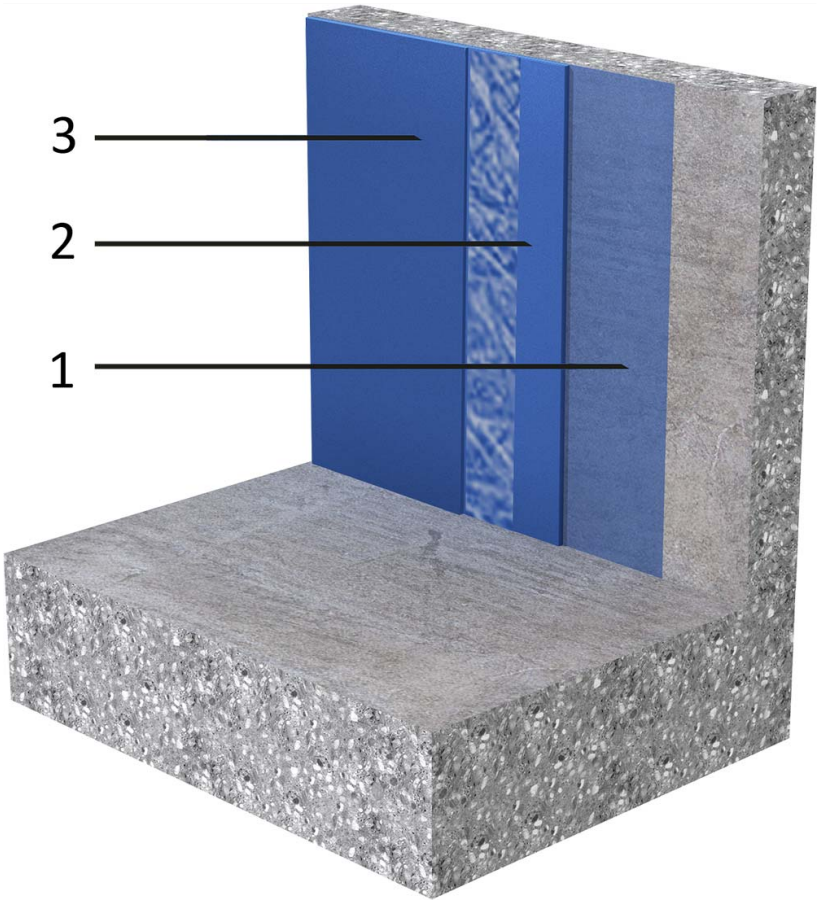
APPROVALS / STANDARDS

- Eurofins, test report, VOC emission acc. French regulations Decret DEVL 11019093D, March 23, 2011 and Decret DEVL 11034675A, see Product Data Sheets of products used
- 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
- Test Institute Hoch, test report No. KB-Hoch-160714, classification reaction to fire acc. according EN 13501-1, June 2016
- IMSL, 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 according EN 1062-7, April 2016
- IMSL, test report, determination of the resistance of surface coatings to mould growth according BS 3900 Part G6, see Product Data Sheet of product used as top coat
- CampdenBRI, sensory evaluation of choclate to test the taint potential, using the triangle test method according TES-S—002 odour transfer method, see Product Data Sheet of product used as top coat

SYSTEM INFORMATION

System Structure

Sikagard® WallCoat AL-11 Hygienic



Layer	Product
1. Primer/ Base coat	Sika® Bonding Primer
2. Intermediate layer	Sikagard®-403 W + embedment of Sika® Reemat lite
3. Top coat	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

250–300 µm

TECHNICAL INFORMATION

Crack Bridging Ability	Class A2 (up to 0.45 mm)	(EN 1062-7)
Reaction to Fire	C-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 to 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/m³	20m³ (1.5 min vaporisation)	30 min
NOCOLYSE® ONE Shot (12 %)	3 ml/m³ (2 cycles)	45m³ (5 minutes vaporisation)	30 min
NOCOLYSE® Food (7.9 %)	1 ml/m³	20m³ (1.5 minutes vaporisation	30 min
NOCOLYSE® Food (7.9 %)	5 ml/m³	75m³ (5 minutes vaporisation)	60 min

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

Consumption

Layer	Product	Consumption
Primer	Sika® Bonding Primer	~ 0.10 kg/m² (~0.1L/m²)
Intermediate	Sikagard®-403 W + Sika Reemat Lite	~ 0.30 kg/m² (~0.22L/m²)
Top coat	Sikagard®-405 W, or Sikagard®-406 W, or Sikagard®-407 W	~ 0.2 kg/m² per layer* (~0.15L/m²)

* A minimum of 2 layers is recommended.

Product Temperature

+8 °C min. / +30 °C max.

Ambient Air Temperature

+8 °C min/ +40 °C max.

Relative Air Humidity

≤ 80 %

Dew Point

Beware of condensation
The substrate and the uncured material must be at least 3 °C above dew point due to risk 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:

Temperature	Minimum	Maximum
+10 °C	4 h	7 d
+20 °C	2 h	7 d
+30 °C	1 h	7 d

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

- Substrate shall be visible damp free, no rinsing water
- Freshly applied Sikagard® WallCoat AL-11 Hygienic shall be protected from damp, condensation and water for at least 24 h
- Always ensure adequate fresh air ventilation during 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 result in a slightly different surface finish – always use same roller type in same areas
- Ensure fist layer is fully dried before over coating
- Crazing may occur when over coating insufficiently 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

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

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 is easily done by slightly grinding and recoating with one or two layers of the relevant top coat.

CLEANING

The top coats are tested in accordance to EN 11998:2006 related to wet scrub resistance. According EN 13300 the product is classified in class 1, which is the highest wet scrub resistance class. Therefore 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.

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited