BUILDING TRUST

SYSTEM DATA SHEET

Sikagard® WallCoat WS-11

SMOOTH, WATER BASED, LOW VOC/ AMC, EASY TO CLEAN COATING

CE

DESCRIPTION

Sikagard® WallCoat WS-11 is a water based, coloured, low VOC / AMC emitting coating for walls and ceilings.

USES

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

- Walls and ceilings in production areas with high ambient humidity
- Walls and ceilings in clean rooms in the electronic industry
- Walls and ceilings in food & beverage plants

CHARACTERISTICS / ADVANTAGES

- Excellent decontamination properties
- Easy to clean
- Easy to apply
- Low odour
- Low VOC/ AMC emissions
- Can be diluted with water

SUSTAINABILITY

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

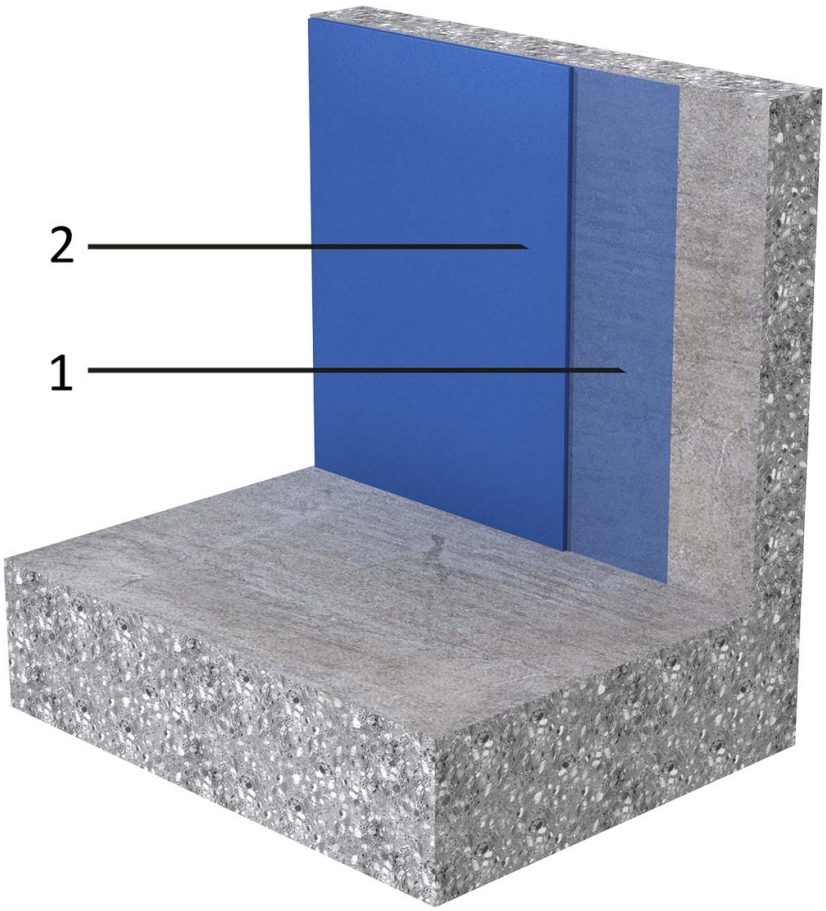
APPROVALS / STANDARDS

- Measurement of biological resistance acc. ISO 846, Frauenhofer IPA, test report SI 1103-544
- Decontamination of surfaces acc. DIN 25415 (ISO 8690), LIF Magdeburg, test report 160209
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 020807030010000002108, and provided with the CE marking.
- Measurement of out gassing properties acc. ISO 14644-8, ISO 16000-6,-9,-11, Frauenhofer IPA, test report SI 1103-544
- Behaviour to fire, classification acc. EN 13501-1, Bodycote Warrington Brandhaus, test report 2008-2023.1-K1
- Behaviour to fire, classification Acc. DIN 4102-1, MPA Dresden, test report 2008-B-1002/2

SYSTEMS

System Structure

Sikagard® WallCoat WS-11



Layer	Product
1. Primer	Sikagard® Wallcoat N + 5% water
2. Top coat	Sikagard® Wallcoat N

Chemical base	Epoxy waterborne
Colour	Standard colour RAL 7032, other on request
Nominal Thickness	~0.2 mm–0.3 mm

TECHNICAL INFORMATION

Abrasion Resistance	~ 100 mg (CS 10/ 1000/ 1000)	(DIN 53109 Taber Abraser Test)
Reaction to Fire	b-S1, d0 B1	(EN 13501-1) (DIN 4102)

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
- 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 (2cycles)	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

Thermal Resistance

Permanent	+50 °C dry heat
Max. 3 days	+80 °C dry heat
Max. 12 hours	+100 °C dry heat

Microbiological Resistance

	ISO Classification (acc. ISO 846)
Funghi	0
Bacteria	0

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
1. Primer	Sikagard® Wallcoat N + 5 % water	0.20 kg/m²
2. Top Coat	Sikagard® Wallcoat N	0.28 kg/m²

Product Temperature

+10 °C min. / +40 °C max.

Ambient Air Temperature

+8 °C min. / +40 °C max.

Relative Air Humidity

≤ 75%
When relative air humidity is ≥ 75% the overcoating time may extend up to 24h more.

Dew Point

Beware of condensation!
The substrate temperature and uncured material must be at least 3 °C above dew point to reduce risk of condensation or blooming on the finish

Substrate Temperature

+8 °C min / +35 °C max.

Substrate Moisture Content

concrete: ≤ 6% when measured by Tramex meter
concrete: ≤ 4% when measured with CM-method or oven-dry method
No rising moisture according ASTM (polyethylene sheet)

Application Time

Temperature	Application Time
+10 °C	~150 min
+20 °C	~90 min
+30 °C	~60 min

Waiting Time / Overcoating

Before applying Sikagard® Wallcoat N on Sikagard® Wallcoat N allow:

Substrate temperature	Minimum	Maximum
+10 °C	3 h	7 d
+20 °C	3 h	6 d
+30 °C	2.5 h	3 d

PRODUCT INFORMATION

Packaging	Part A	14.6kg drums
	Part B	5.4kg drums
Shelf life	Part A: 12 month Part B: 12 month	
Storage conditions	From date of production if stored properly in closed, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +30°C. Protect from frost.	

MAINTENANCE

In case the surface of the coating system has picked up to much dirt and can´t be cleaned properly it should be maintained. Same will be necessary when the top coat has been contaminated from liquids penetrated into the near surface. The maintenance of the system can easily be done by easy grinding and recoating with one or two layers of the relevant top coat.

CLEANING

The top coat of the system is tested in acc. to EN 11998:2006, wet scrub resistance. Acc. 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

- Do not apply on substrates with rising moisture
- Freshly applied Sikagard® WallCoat WS-11 shall be protected from damp, condensation and water for at least 24 h
- Always ensure adequate fresh air ventilation while application and curing
- The appearance of the finish (gloss) may vary with changes in temperature and relative humidity during application
- With light colours, i.e. yellow, orange and red, the application of multiple layers may be necessary to ensure good opacity
- Exposed to direct UV radiation discolouration and deviation of colour may occur. The technical properties of the system are not influenced.
- 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
- If heating is required don´t use gas, oil, paraffin or other fossil fuel heaters. Due to the production of CO_2 and H_20 vapours the finish may be affected. For heating only use electrical powered heaters.

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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