

SYSTEM DATA SHEET

Sikagard® WallCoat WS-11

Smooth, water based, low VOC/ AMC, easy to clean coating

PRODUCT 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

ENVIRONMENTAL INFORMATION

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

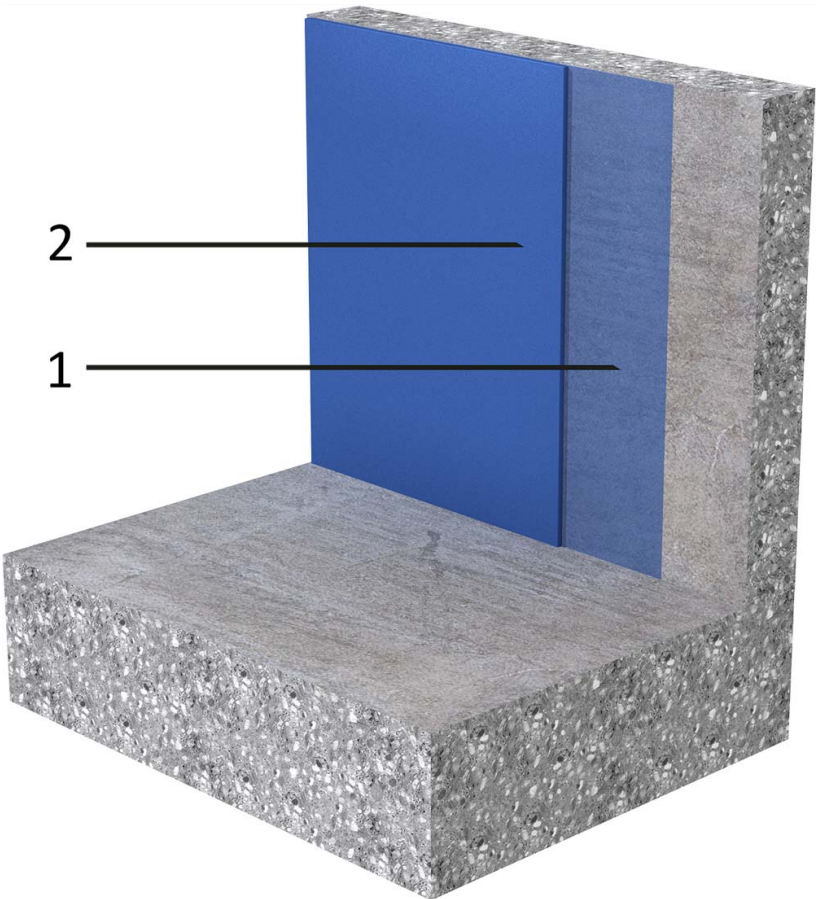
APPROVALS / STANDARDS

- Measurement of biological resistance acc. ISO 846, Fraunhofer 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, Fraunhofer 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

SYSTEM INFORMATION

System Structure

Sikagard® WallCoat WS-11



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

Composition	Epoxy waterborne
Colour	Standard colour RAL 7032, other colours are available 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: <ul style="list-style-type: none">▪ 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:
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	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 the relative air humidity is ≥ 75%, the overcoating time may be extended by up to 24 hours, or 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 the CM-method or oven-dry method No rising moisture according to 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

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

- 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 CO₂ and H₂O vapours the finish may be affected. For heating only use electrical powered heaters.

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 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. with EN 11998:2006, wet scrub resistance. Acc. EN 13300, the product is classified as class 1. The surface can be cleaned with a damp sponge, using mild detergents and then 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.

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System Data Sheet

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