BUILDING TRUST

PRODUCT DATA SHEET

Sikagard® Wallcoat N

Two-part, water-based, epoxy seal coat

DESCRIPTION

Sikagard® WallCoat N is a two-part, water-based, coloured, epoxy resin seal coat for walls.

USES

Sikagard® WallCoat N may only be used by experienced professionals.

Sikagard® WallCoat N is used as a seal coat for interior concrete and cementitious wall surfaces in the following areas:
- Clean rooms
- Food and beverage facilities
- Car parks
- Logistics facilities and warehouses
- Manufacturing facilities and workshops

Please note:
- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Good resistance to specific chemicals
- Impermeable to liquids
- Easy to clean
- Very good resistance to carbonation
- Very good ease of radioactive decontamination
- Good opacity (covering power)
- Very low odour
- Easy to mix and apply

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- Fire testing EN 13501, SikaGard® Wallcoat N, Bodycote, Report No. 2008-2023.1-K1
- Biological Resistance ISO 846, SikaGard® Wallcoat N, CSM Fraunhofer, Approval No. SI 1103-544
- Riboflavin Test, Sikagard® WallCoat N, IPA Fraunhofer, No. SI 2305-1426
- Particle Emission ISO 14644-1, Sikagard® WallCoat N, IPA Fraunhofer, Test report No. SI 2305-1426

PRODUCT INFORMATION

Chemical Base	Water-based epoxy	
Packaging	Container Part A	14.6 kg
	Container Part B	5.4 kg
	Container Part A + Part B	20 kg ready to mix unit
	Refer to the current price list for available packaging variations.	
Colour	Cured colour	RAL 7032 (pebble grey), others on request
Shelf Life	12 months from date of production	

Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Density	Part A	1.58 kg/l	(EN ISO 2811-1)
	Part B	1.07 kg/l	
	Mixed Product	1.39 kg/l	
Solid Content by Weight	64 %		
Solid Content by Volume	50 %		
Colour	Cured appearance	Semi-gloss finish.	

TECHNICAL INFORMATION

Abrasion Resistance	Cured 7 days at +23 °C	94 mg (CS10 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)
Service Temperature	IMPORTANT **Mechanical and chemical damage during exposure to moist or wet heat** This Product, can resist short-term moist or wet heat of up to +80 °C, if the exposure is only temporary, (less than 1 hour). However, during exposure to moist or wet heat, do not also subject the system to chemical or mechanical strain, as it may cause damage.		

Exposure	Dry heat
Permanent	+50 °C
max. 3 days	+80 °C
max. 12 hours	+100 °C

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	73 : 27
	Part A : Part B (by volume)	65 : 35
Consumption	Unfilled	0.28 kg/m² per layer
	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.	
Layer Thickness	approx. 0.15 mm per layer	
Product Temperature	Maximum	+40 °C
	Minimum	+10 °C
Ambient Air Temperature	Maximum	+40 °C
	Minimum	+10 °C
Relative Air Humidity	Maximum	75 % r.h.
Substrate Temperature	Maximum	+35 °C
	Minimum	+10 °C

Pot Life

+10 °C	150 minutes
+20 °C	90 minutes
+30 °C	90 minutes

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

Curing Time

Temperature	Minimum	Maximum
+10°C	3 hours	7 days
+20°C	3 hours	7 days
+30°C	2.5 hours	7 days

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.

APPLICATION INSTRUCTIONS

MIXING

1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. Mix continuously for 3 minutes, until a uniform mix is achieved. Note Use a low speed electrical stirrer (300-400 rpm) to avoid air entrapment.
4. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

APPLICATION

IMPORTANT
Ventilation in confined spaces
Always ensure good ventilation when applying the Product in a confined space.
IMPORTANT
Protect from moisture
After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT
Gypsum-based substrates may be damaged in wet conditions
When used in wet areas such as shower rooms gypsum plaster boards are an unsuitable substrate for the Product. Water penetration may damage the gypsum board.
1. Apply by brush, roller or airless spray.

CLEANING OF TOOLS

Clean all tools with water immediately after use. Hardened and/or cured material can only be removed mechanically.

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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