

## PRODUCT DATA SHEET

# Sikagard® Wallcoat N

### 2-PART WATER BASED EPOXY SEAL COAT

#### PRODUCT DESCRIPTION

Sikagard® Wallcoat N is a two part, water based, coloured epoxy resin based seal coat.

#### USES

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

- Application on concrete and cementitious substrates
- Coloured seal coat for interior wall surfaces
- Suitable for clean rooms
- Suitable for production facilities in the food and beverage industry, car parks, storage and logistic areas

#### CHARACTERISTICS / ADVANTAGES

- Solvent free
- Good mechanical and chemical resistance
- High build
- Impervious to liquids
- Easy to clean
- High resistance to carbonation
- Excellent decontamination properties
- Good opacity
- Odourless
- Easy to mix and to apply

#### ENVIRONMENTAL INFORMATION

According USGBC LEED Rating Sikagard® Wallcoat N conforms to the requirements of LEED EQ Credit 4.2: Low –Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100g/l.

#### APPROVALS / STANDARDS

- Coating for concrete protection according the requirements of EN 1505-2/2004, DoP 0208070300100000021008, certified by FPC Notified Body and provided with CE-Marking
- Fraunhofer Institut, IPA, test report SI 1103-544, measurement of biological resistance according ISO 846, May 2011
- Fraunhofer Institut, IPA, test report SI 1103-544, outgassing properties according ISO 14644-8 ISO 16000-6, -9, -11, May 2011
- ILF Magdeburg; Germany, report No. 3-063/2007, Decontamination of contaminated surfaces according DIN 25415 , May 2007
- Bodycote, Warrington Brandhaus, test report No. 2008-2023.1-K1, classification reaction to fire according EN 13501-1, November 2008
- MPA Dresden, test report No. 2008-B-1002/02, reaction to fire according DIN 4102, part 1, April 2008

## PRODUCT INFORMATION

<b>Chemical Base</b>	Epoxy resin, water based		
<b>Packaging</b>	Part A	14.60 kg drums	
	Part B	5.40 kg drums	
<b>Appearance / Colour</b>	RAL 7032 (pebble grey), other on request		
<b>Shelf Life</b>	12 month from date of production		
<b>Storage Conditions</b>	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protected from direct sunlight.		
<b>Density</b>	Part A	approx. 1.58 kg/l	(EN ISO 2811-1)
	Part B	approx. 1.07 kg/l	
	Mixed resin	approx. 1.39 kg/l	
Density values determined at +23°C			
<b>Solid content by weight</b>	~64%		
<b>Solid content by volume</b>	~50%		

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	94 mg (CS10/1000cy/100 0g)	(ASTM D 4060)
<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup> to concrete	(ISO 4624)
<b>Chemical Resistance</b>	Please contact Sika technical service for specific information.	
<b>Thermal Resistance</b>	<b>Exposure</b>	<b>Dry heat</b>
	Permanent	+50°C
	max. 3 days	+80°C
	max. 12 hours	+100°C

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B = 73 : 27 by weight / 65:35 by volume		
<b>Consumption</b>	approx. 0.28 kg/m <sup>2</sup> per layer		
<b>Layer Thickness</b>	approx. 0.15 mm per layer		
<b>Ambient Air Temperature</b>	+10°C ... +40°C		
<b>Relative Air Humidity</b>	< 75%		
<b>Substrate Temperature</b>	+10°C ... +30°C ≥3°C above dew point, beware of condensation		
<b>Pot Life</b>	<b>Temperature</b>	<b>Time</b>	
	+10°C	approx. 150 minutes	
	+20°C	approx. 90 minutes	
	+30°C	approx. 60 minutes	
<b>Curing Time</b>	<b>Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+10°C	3 hours	7 days
	+20°C	3 hours	7 days
	+30°C	2.5 hours	7 days

## APPLICATION INSTRUCTIONS

Prior to mixing stir part A mechanically. When all of part B has been added to part A mix continuously for 3 minutes until a uniform mixed has been achieved. Use a low speed electrical stirrer (300-400 rpm) to avoid air entrapment. To ensure proper mixing pour material into a clean container and stir again. 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.

### LIMITATIONS

This product may only be used by experienced professionals. With relative humidity >75% the over coating time increases by 24 hours. Do not apply Sikagard® Wallcoat N on gypsum plaster boards when used in wet areas, i.e. shower rooms. Ensure good ventilation when applying Sikagard® Wallcoat N in confined areas to ensure full curing. Freshly applied Sikagard® Wallcoat N should be protected from condensation and water for at least 24 hours. For exact colour matching ensure the use of the same control batch numbers.

### 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.

### 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.

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## DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) is 140 g/l (Limits 2010) for the ready to use product. The maximum content of Sikagard® Wallcoat N is <140 g/l VOC for the ready to use product.

## 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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