

PRODUCT DATA SHEET

Sikafloor®-2550 W

2-PART LOW EMISSION WATER BASED EPOXY COATING

DESCRIPTION

Sikafloor®-2550 W is a 2-part, low emission water based, coloured, epoxy resin based floor coating that can provide a low maintenance easy to clean smooth gloss finish. For medium - heavy wear conditions. Internal and external use.

USES

Sikafloor®-2550 W may only be used by experienced professionals.

- Coloured epoxy coating on concrete, cementitious screeds, top coat for broadcast systems and epoxy mortars
- Can be used as sealer and top coat
- For production areas, warehouses, garages, etc.

CHARACTERISTICS / ADVANTAGES

- abrasion resistant and chemical resistant
- very low-emmission
- liquid-proof and weather resistant
- can be filled with quartz sand
- suitable for indoor and outdoor use

APPROVALS / CERTIFICATES

- Basic tests according to the directive of DAfStb 10/2001
- Test certificate for surface protection systems in accordance to DIN EN 1504-2 taking into account DIN V 18026 "Surface protection systems for concrete from products in accordance with DIN EN 1504-2: 2005-01"
- CE Marking (see Declaration of Performance)

PRODUCT INFORMATION

Packaging	18,0 kg	Comp. A: 13,0 kg Comp. B: 5,0 kg
Appearance / Colour	Resin - Part A Hardener - Part B	Coloured, liquid Transparent, liquid
	Wide variety of colours. Low colour deviations are unavoidable for raw material reasons. In case of light coloured tones, such as in the yellow or orange area, a multi-layer application is necessary to achieve the opacity. Own experiments are indispensable. Under UV and weather influences, epoxy resins are generally not permanently colour-stable.	
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.	
Density	1,22 kg/l	(DIN 53 217)
Solid content by mass	approx. 55%	(DIN 53 219)

TECHNICAL INFORMATION

Abrasion resistance	63 mg	14 days/23°C/50% r.h.	(DIN 53 109)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Support for further information.		

SYSTEM INFORMATION

System	OS 8 - System		
	Sika® CarDeck Static W II	Consumption Sikafloor®-2550 W: 2 x approx. 0,25 - 0,35 kg/m ² *	
	Broadcasted, drivable OS-System		
	* Sikafloor®-2550 W can be mixed with 5% of water.		
	For further information, please refer to the information in the test certificate.		

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 72 : 28 (by weight)		
Consumption	Concrete and Screeds		
	Surface preparation: Milling or shot blasting		
	<u>1. As primer</u>		
	Product	Consumption	
	Sikafloor®-150	approx. 0,3 – 0,5 kg/m ²	
	Sikafloor®-151	approx. 0,35 - 0,55 kg/m ²	
	Sikafloor®-2550 W + 5% water	approx. 0,2 – 0,3 kg/m ²	
	<u>2. As sealer</u>		
	Product	Consumption	
	2 x Sikafloor®-2550 W	approx. 0,2 – 0,3 kg/m ² (each work-step)	
	<u>3. As textured sealer</u>		
	Product	Consumption	
	1–2 x Sikafloor®-2550 W +2% Extender T	approx. 0,2 – 0,3 kg/m ² (each work-step)	
	or		
	Product	Consumption	
	Sikafloor®-2550 W	approx. 0,4 kg/m ² *	
	Sikafloor®-2550 W	approx. 0,4 kg/m ² * (Working with 5 % of glass beads is possible)	
	<u>4. As sealer on broadcasted systems</u>		
	Product	Consumption	
	2 x Sikafloor®-2550 W*	approx. 0,25 – 0,35 kg/m ² (each workstep)	

5. Vertical surfaces

Product	Consumption
Sikafloor®-2550 W + approx. 3% Extender T	approx. 1,0 kg/m ² + approx. 1,0 - 2,0 kg/m ² (broadcast with QS 0,1 - 0,3 mm)

* Dilution with up to 5% water possible. Depending on the ambient temperature, consumption may vary by 0.2 - 0.3 kg/m². At temperatures < 15°C, a higher material consumption must be expected.

Ambient air temperature	Min. + 10°C Max. + 30°C																
Relative air humidity	Max. 80%																
Dew point	Protect against condensation. During application and curing, the subsurface temperature must be at least + 3°C above the dew point temperature.																
Substrate temperature	Min. + 10°C Max. + 30°C																
Substrate moisture content	≤ 4 % (parts by weight) Test method: Sika®-Tramexmeter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).																
Pot Life	<table><thead><tr><th>Surface Temperature</th><th>Time</th></tr></thead><tbody><tr><td>+10°C</td><td>60 Min.</td></tr><tr><td>+20°C</td><td>30 Min.</td></tr><tr><td>+30°C</td><td>15 Min.</td></tr></tbody></table>	Surface Temperature	Time	+10°C	60 Min.	+20°C	30 Min.	+30°C	15 Min.								
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BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

Substrate quality / preparation: For further information, please refer to the system data sheet "Sikafloor Floors: Assessing, Preparing and Priming Surfaces".

Maintenance: For further information, please refer to the "Cleaning and maintenance instructions".

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. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

HAZARD INFORMATION GISCODE:

RE 30 (previously RE 1)

This coding makes it possible to obtain further information on the service pages of the BG Bau (www.bgbau.de/gisbau), as well as assistance in drawing up operating instructions (www.wingis-online.de/wingisonline/).

Skin contact with epoxy resins can lead to allergies!

When handling epoxy resins, direct skin contact must be avoided at all costs! For the selection of suitable protective equipment, our information data sheets "General notes on occupational health and safety" (reference number 7510) and "General notes on the wearing of protective gloves" (reference number 7511) are available at www.sika.de. In this context, we also recommend the service pages of the BG Bau for handling epoxy resins (www.bgbau.de/gisbau/fachthemen/epoxi).

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA /j type **sb**) is 500 g/l (Limits 2010) for the ready to use product. The maximum content of Sikafloor®-2550 W is ≤ 500 g/IVOC for the ready to use product.

APPLICATION INSTRUCTIONS

The specified times for processing time and waiting times are approx. information and may vary under alternative environmental conditions.

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate quality

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm². Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material. Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness. High spots can be removed by grinding. Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Pre-treatment

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sika-floor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-2550 W. All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by industrial vacuuming equipment.

Measure before coating Sikafloor®-264 N: The surface must be padded with a Twister Extreme Red Pad.

MIXING

Stir component A mechanically before mixing. Carefully mix the components with A + B in the prescribed mixing ratio before application. To prevent splashing or even spilling of the liquid, mix the components with an infinitely variable electric stirrer for a short time at low speed. Then increase the stirring speed to a maximum of 300 rpm for intensive mixing. The mixing time is at least 3 minutes and is only finished when a homogeneous mixture is obtained. Transfer (repot) the mixed material into a clean container and mix again briefly as described above. When mixing and repotting the products, suitable protective clothing must be worn: e.g. tight-closing goggles, protective gloves, long-sleeved shirt, work pants, rubber apron and protective shoes.

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PRODUCT DATA SHEET

Sikafloor®-2550 W

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APPLICATION

When using Sikafloor-2550 W as a primer, the material must be intensively incorporated on the surface in order to achieve complete wetting.

The other operations can be rolled. With uneven material distribution, layer thickness fluctuations, and fluctuating environmental conditions, color and gloss differences are inevitable.

During processing and hardening, it is essential to ensure good ventilation (especially at temperatures < +15°C). Otherwise, reaction disturbances can not be ruled out.

Generally work at falling temperatures!

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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