BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-3240

2-Part PUR tough-elastic, Low-VOC, self-smoothing Floor

DESCRIPTION

Sikafloor®-3240 is a two part solvent free, coloured self-smoothing PUR resin, total solid according to Deutsche Bauchemie, with tough-elastic properties. Sikafloor®-3240 makes use of Sika's unique i-Cure technology to improve surface aesthetics and reduce sensitivity for ambient humidity during application.

USES

Sikafloor®-3240 may only be used by experienced professionals.

- Smooth wearing course with crack-bridging properties for industrial floors in production and storage facilities, workshops etc.
- Broadcast wearing course with crack-bridging properties for wet working areas (food and beverage industry etc.), car park decks and loading ramps etc.
- Applicable on asphalt surfaces, indoor, as in shopping centres, exhibition and storage areas.

FEATURES

- Flexible and tough-elastic
- Crack-bridging
- Application on asphalt substrates possible (mastic asphalt)
- Good chemical and mechanical resistance
- Solvent-free and low VOC emissions
- Possible slip resistant surface
- Easy to apply and to keep clean
- Economical
- Not sensitive to moisture

SUSTAINABILITY

LEED Produktinformation
Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
MINERGIE-ECO product information
VOC content < 1 % (ready-to-use product)

CERTIFICATES AND TEST REPORTS

- Synthetic resin screed material according to EN 13813:2002, certified by notified factory production control body and provided with the CE mark
- Coating for surface protection of concrete according to EN 1504-2:2004, certified by notified factory production control body and provided with the CE mark.
- Emission test according to the German AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology). Sampling, testing and evaluation were performed according to ISO-16000, Report No. 392-2015-00212801_D_DE_02, Eurofins Product Testing A/S, Denmark.
- Fire classification according to DIN EN 13501-1:2010-01: Report No. 20150909/01, MPA Dresden
- Outgassing VOC emission certificate: Cleanroom Suitable Materials - CSM. Statement of Qualification, ISO-AMCm class -6.9. Tested by IPA report No. SI 1506-767.
- Biological Resistance Class “Good “–Cleanroom Suitable Materials. Evaluation of the biological resistance in accordance with ISO 846. Tested by IPA report No. SI 1506-767.
- Riboflavin test according to ISO 4628-1 and VDI 2083-17: Excellent. Tested at Fraunhofer IPA test report SI 1506-767.
- Paint compatibility according to PV 3.10.7 tested at HQM Induserv Germany, test report 15-08-15203573-001.
- Crack bridging properties following to EN 1062-7 method A, Test report No: 51-15-0056, IBOS GmbH.
- Slip resistance class determined according to DIN

51131, test reports 020109-15-16, 020109-15-16a, 020109-15-17, 020109-15-17a, 020109-15-18, 020109-15-18a,

PRODUCT INFORMATION

Composition	Polyurethane (PUR)		
Packaging	Part A	20,25 kg	
	Part B	4,75 kg	
	Part A+B	25,0 kg ready to mix units	
Appearance and colour	Part A	coloured, liquid	
	Part B	transparent, liquid	
	Sikafloor®-3240 is available in a variety of country-specific colours. In the case of light shades (yellow or orange range), colour deviations may occur due to filling with quartz sand		
Shelf life	12 months from date of production		
Storage conditions	The product must be stored properly in original, unopened and undamaged sealed packaging.		
Density	Part A	~1.4 kg/l	(DIN EN ISO 2811-1)
	Part B	~1.3 kg/l	
	Mixed resin (filled 1:0.5)	~1.6 kg/l	
	Filling 1:0.5 with quartz sand F34 0.1–0.3 mm. All Density values at +23 °C.		
Solid content by mass	~ 100%		
Solid content by volume	~ 100%		
Shore D Hardness	~ 60	(7 days / +23°C / 50% r.h.)	(DIN EN 868)
Abrasion resistance	~ 65 mg	(14 days / +23°C / 50% r.h.)	(ASTM D 4060)
Tensile strength	~ 14 N/mm²	(14 days / +23°C / 50% r.h.)	(DIN EN ISO 527-2)
Tensile strain at break	~ 90 %	(resin / 28 days / +23°C / 50% r.h.)	(ISO 527-2)
Tensile adhesion strength	> 1,5 N/mm²	(failure in concrete)	(EN 13892-8)
Chemical resistance	See chemical resistance list		

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 81 : 19 (by weight)
Ambient air temperature	Min. +10°C / max. +30°C The minimum temperature must not be lowered even during curing.
Relative air humidity	~ 75 - 80 %
Dew point	Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.
Substrate temperature	Minimum +10°C / maximum +30°C. The minimum temperature must not be lowered even during curing.
Substrate moisture content	The specifications of the system primers mentioned under "Coating structure" are decisive.
Pot Life	

Temperatures	Time
+ 10°C	~ 40 Minuten
+ 20°C	~ 30 Minuten
+ 30°C	~ 20 Minuten

The times given above are influenced by changing conditions, especially temperature and humidity.

Curing time

Before overcoating Sikafloor®-3240 allow:

Substrate temperature	Minimum	Maximum
+10°C	~ 30 hours	~ 72 hours
+20°C	~ 24 hours	~ 48 hours
+30°C	~ 16 hours	~ 36 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. If maximum waiting time is exceeded, the Sikafloor®-3240 surface have to be grinded to get mechanical bonding between the Sikafloor® layers

Applied product ready for use

Temperature	Foot traffic	Light traffic	Full Cure
+10°C	1 day	3 days	9 days
+20°C	12 hours	2 days	5 days
+30°C	8 hours	1 day	3 days

Note: Times are approximate and will be affected by changing ambient conditions

System

	Concrete/cement screed	Mastic asphalt
Primer	On normally absorbent substrate: Sikafloor® -150 / -151[1)] approx. 0.3-0.5 kg/m². If the max. waiting time is exceeded, fill loosely with 0.3-0.8 mm quartz sand.	Sikafloor®-3240: 0.4-0.5 kg/m² if not working fresh in fresh, sprinkle with quartz sand 0.3-0.8 mm
Levelling	Sikafloor® -150 / -151 (see PDB in each case)[1)]	Sikafloor®-3240: 1.7 kg/m²/mm Backfill in a mixing ratio of 1 : 0.5 if not working fresh in fresh sprinkle with quartz sand 0.3-0.8 mm
Sikafloor® MultiFlex PS-32 ca. 2mm		
Primer	Sikafloor®-151[1)]	0,4 kg/m²
Coating	Sikafloor®-3240 1:0,5 filled with quartz sand 0.1-0.3 mm	1,8 kg/m²/mm
Sikafloor® MultiFlex PS-32 UV ca. 2mm		
Primer	Sikafloor®-151[1)]	0,4 kg/m²
Coating	Sikafloor®-3240 1:0,5 filled with quartz sand 0.1-0.3 mm	1,8 kg/m²/mm
Sealing	Sikafloor®-305 W	0,15 kg/m²
Sikafloor® MultiFlex PB-32 ca. 3mm		
Primer	Sikafloor®-151[1)]	0,4 kg/m²
Coating	Sikafloor®-3240 1:0,5 with quartz sand 0,1-0,3 mm filled	1,8 kg/m²/mm
Sanded off	Quartz sand 0,3-0,8 mm	4,0-5,0 kg/m²
Sealing	Sikafloor®-378	0,7-0,9 kg/m²
Sikafloor® MultiFlex PB-32 UV ca. 3mm		

Primer	Sikafloor® -151[1)]	0,4 kg/m²
Coating	Sikafloor®-3240 1:0,5 with quartz sand 0,1-0,3 mm filled	1,8 kg/m²/mm
Sanded off	Quartz sand 0,3-0,8 mm	4,0-5,0 kg/m²
Sealing	Sikafloor®-359 N[2)]	0,7-0,9 kg/m²

Sikafloor®-3240 Thixo

Primer	Sikafloor®-151[1)]	0,4 kg/m²
Coating	Sikafloor®-3240 +3% Sikafloor® Stellmittel T	0,7 kg/m²

1) Alternatively, Sikafloor®-150 or Sikafloor®-701 can be used. Please refer to the corresponding product data sheet.
2) For Sikafloor® MultiFlex PS-32 UV and Sikafloor® MultiFlex PB-32 UV it is mandatory to apply a lightfast sealer.
At lower temperatures, lower layer thicknesses or special colour shades it may be necessary to reduce the proportion of quartz sand.
These are theoretical values and do not include additions for surface porosity, surface roughness, level differences and residual material in the container, etc.

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.

IMPORTANT CONSIDERATIONS

- Colour variations are un-avoidable due to raw materials. It can occur with quartz sand in bright shades such as yellow or orange where colour variations through the backfill may be visible. With these colours, the opacity is limited if the product is used as a top coat. Applying a reference area is strongly recommended.
- Under UV and weathering changes in colour are possible. For colour matching, ensure Sikafloor®-3240 components A and B are applied from the same control batch numbers.
- Do not apply Sikafloor®-3240 on substrates with rising moisture.
- Do not apply on substrate surfaces with a slope > 1 %.
- Freshly applied Sikafloor®-3240 must be protected from damp, condensation and water for at least 24 hours. Uncured material reacts in contact with water (foaming). During application care must be taken that no 'sweat' drops into fresh Sikafloor®-3240 (wear head and wrist bands).
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- In smooth applications with sun light exposure use Sikafloor®-357 N or Sikafloor®- 305W as seal coat.
- Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- If during application temporary heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

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.

Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.

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 500 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikafloor®-3240 is < 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

SUBSTRATE CONDITION

The substrate must be clean, dry and free of any contamination, e.g. dirt, grease, oil, varnish and other materials that could impair adhesion. Insufficiently load-bearing layers and soiling such as dust, oil, grease, old coatings, etc. must be removed. Adhesive tensile strength > 1.5 N/mm². In case of doubt, a sample surface must be applied.

Cementitious substrates:

Sikafloor®-3240 is always applied on a non-porous primer. Please observe the product data sheet of the primer used.

Old mastic asphalt surfaces:

The substrate must be prepared mechanically, e.g. by shot-blasting. Insufficiently load-bearing layers and soiling must be removed. At least 80 % of the aggregate must be exposed. Defects, holes or break-outs must be levelled with suitable Sika® products.

MIXING

Stir component A mechanically before mixing. Carefully mix components A + B in the prescribed mixing ratio before application. To prevent splashing or even spilling of the liquid, mix the components for a short time at low speed with an infinitely variable electric stirrer. Then increase the stirring speed to a maximum of 300 rpm for intensive mixing. After approx. 3 minutes, add the intended proportions of quartz sand. 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-fitting safety goggles, protective gloves, long-sleeved shirt, work trousers, rubber apron and protective shoes.

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APPLICATION

Before application, determine substrate moisture, humidity and dew point.

As a primer for mastic asphalt surfaces

Sikafloor®-3240 is poured out and evenly distributed with a rubber squeegee. To achieve even wetting of the substrate, the material should be worked vigorously into the surface. Any necessary quartz sand sprinkling is done after a waiting time of 15 - 20 minutes.

As a levelling layer for mastic asphalt surfaces

Rough surfaces must be levelled beforehand. Apply the levelling layer with a squeegee or trowel to the desired thickness.

As a flow coating

Sikafloor®-3240 is poured out and evenly distributed with a notched trowel. Then immediately level and deaerate with a spiked roller in a cross pattern.

As a bedding layer

Sikafloor®-3240 is poured out and evenly distributed with a notched trowel. Immediately level and deaerate the evenly laid layer with a spiked roller in a cross pattern. Then sprinkle the surface first lightly, then in excess with quartz sand.

CLEANING OF EQUIPMENT

Clean tools immediately with Sika® Thinner.
Cured material can only be removed mechanically.

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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