

## 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.

#### CHARACTERISTICS / ADVANTAGES

- 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

#### ENVIRONMENTAL INFORMATION

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

#### APPROVALS / STANDARDS

- 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.
- 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.
- Riboflavin test according to ISO 4628-1 and VDI 2083-17: Excellent. Tested at Fraunhofer IPA test report SI 1506-767.

## PRODUCT INFORMATION

<b>Chemical Base</b>	Polyurethane (PUR)	
<b>Packaging</b>	Part A	20.25 kg containers
	Part B	4.75 kg containers
	Part A+B	25.0 kg ready to mix units
<b>Appearance / Colour</b>	Part A	coloured, liquid
	Part B	transparent, liquid
Sikafloor®-3240 is available in broad range of colours.		
<b>Shelf Life</b>	12 months from date of production	
<b>Storage Conditions</b>	The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions.	
<b>Density</b>	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.		
<b>Solid Content by Weight</b>	~100 %	
<b>Solid Content by Volume</b>	~100 %	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~ 60 (7 days/23 °C/50 % r.h.)	(DIN 53505)
<b>Abrasion Resistance</b>	~ 65 mg (14 Days/23 °C/50 % r.h.)	(ASTM D 4060)
<b>Tensile Strength</b>	~ 14 N/mm <sup>2</sup> (14 days/23 °C/50 % r.h.)	(DIN EN ISO 527-2)
<b>Elongation at Break</b>	~ 90 % (resin / 28 days / +23 °C / 50 % r.h.)	(ISO 527-2)
<b>Tensile Adhesion Strength</b>	>1.5 N/mm <sup>2</sup> (failure in concrete)	(EN 13892-8)
<b>Chemical Resistance</b>	Resistant to many chemicals. Contact Sika technical service for specific information.	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B = 81 : 19 (by weight)
<b>Consumption</b>	Please refer to the System Data Sheets
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.
<b>Relative Air Humidity</b>	~ 75 - 80 %
<b>Dew Point</b>	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.
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.
<b>Substrate Moisture Content</b>	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life	Temperatures	Time
	+10 °C	~ 40 minutes
	+20 °C	~ 30 minutes
	+30 °C	~ 20 minutes

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

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm<sup>2</sup>. If in doubt apply a test area first.

### MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, add the quartz sand F34 0.1 – 0.3 mm and mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour the materials into another pail and mix again to achieve a consistent mix. After mixing leave the mixture for 3 minutes to react before applying.

#### Mixing Tools

Sikafloor®-3240 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

### APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point.

Sikafloor®-3240 is poured and spread evenly by means of a serrated trowel or pin rake. When used in a self-smoothing system, roll in two directions with a spike roller to ensure even thickness and to remove entrapped air.

### CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

## MAINTENANCE

### CLEANING

To maintain the appearance of the floor after application, Sikafloor®-3240 must have all spillages removed immediately and be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc., using suitable detergents and waxes.

## LIMITATIONS

- 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<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## 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.

## 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.

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### Product Data Sheet

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## 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.

### VOC DATA

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.

## 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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