BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-3240

Tough-elastic, low-VOC polyurethane floor coating

DESCRIPTION

Sikafloor®-3240 is a 2-part polyurethane, coloured, low VOC emission, tough-elastic crack bridging resin based floor coating. It provides a hard-wearing, seamless, chemical resistant, low maintenance, gloss finish.

USES

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

Sikafloor®-3240 is used as a:
- Self-smoothing and slip resistant wearing layer on concrete and cementitious screed substrates

Please note:
- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Flexible and tough elastic
- Good crack-bridging ability
- Application on asphalt substrates possible (mastic asphalt)
- Good resistance to chemicals
- Good mechanical resistance
- Low VOC emissions
- Optional surface profiles slip resistant or smooth
- Easy to apply
- Easy to clean and low maintenance
- Low sensitivity to moisture during application

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Complies with the requirements of DIBt (October 2010) in combination with the NIK values from AgBB (June 2012) for use in the indoor environment.

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
- Floor Coatings Sikafloor®-3240, TFI, Report No. 461248-01
- Riboflavin test Sikafloor®-3240, CSM Fraunhofer, Certificate No. SI 1506-767
- Track Noise Reduction Sikafloor®-3240, TFI, Report No. 461407-02

PRODUCT INFORMATION

Chemical Base	Solvent-free polyurethane	
Packaging	Container Part A	20.25 kg
	Container Part B	4.75 kg
	Container Part A + Part B	25.0 kg ready to mix units
	Refer to the current price list for available packaging variations.	

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.		
Appearance / Colour	Part A	Coloured, liquid	
	Part B	Brown	
	Cured appearance	Gloss finish	
Density	Part A	1.4 kg/l	(EN ISO 2811-1)
	Part B	1.2 kg/l	
	Mixed Product	1.6 kg/l (filled 1 : 0.5 with quartz sand 0.1–0.3 mm)	
Solid content by weight	100 %		
Solid content by volume	100 %		

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	60	(EN ISO 868)
Abrasion Resistance	Cured 20 days at +23 °C	525 mg (H22 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Tensile Strength	Resin filled, cured 14 days at +23 °C and 50 % r.h.	14 N/mm²	(EN ISO 527-2)
Elongation at Break	Tested at +23 °C	90 %	(DIN 53504)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	81 : 19
Consumption	Filled	1.8 kg/m² per mm thickness
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative Air Humidity	Maximum	75-80 % r.h.
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation on the surface of the applied product.	
Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C
Substrate Moisture Content	Refer to the individual primer Product Data Sheet.	
Pot Life	+10 °C	40 minutes
	+20 °C	30 minutes
	+30 °C	20 minutes

Waiting Time / Overcoating

Before overcoating Sikafloor®-3240, allow:

Temperature	Minimum	Maximum
+10 °C	30 hours	72 hours
+20 °C	24 hours	48 hours
+30 °C	16 hours	36 hours

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

Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	~24 hours	~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, 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.

FURTHER DOCUMENTS

Refer to the following method statements:
- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement — Sikafloor® mixing and application

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT
- Electric double-paddle mixer (> 700 W, 300 rpm to 400 rpm)

APPLICATION EQUIPMENT
- Pin leveller
- Trowels, including serrated
- Spiked roller

SUBSTRATE QUALITY

IMPORTANT

Reduced service life due to incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

1. For static cracks, ensure the width is suitable for overcoating with Sikafloor®-3240.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikafloor®-3240.

TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

SUBSTRATE CONDITION

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 N/mm^2) with a minimum tensile strength of 1.5 N/mm^2.

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Maximum slope gradient

Note: Do not apply on substrates with a slope > 1 % gradient.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION
IMPORTANT
Surface defects due to voids in the substrate
Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.
1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Before applying the Product, remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.
5. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for leveling and repairing defects, contact Sika® Technical Services.
SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES
For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.

MIXING

1. Mix part A until a uniform colour and mix has been achieved.
2. Add Part B (hardener) to Part A.
3. IMPORTANT Do not mix excessively. Mix Part A + B continuously for ~2 minutes until a uniformly coloured mix is achieved.
4. Add the quartz sand and mix for a further 2 minutes until a uniform mix has been achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. 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.
7. Leave the Product to stand for 3 minutes before application.

APPLICATION

IMPORTANT
Strictly follow installation procedures
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
IMPORTANT
Protect from moisture
After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.
IMPORTANT
Foaming due to water contact of uncured material
Uncured material reacts with water of any kind, which leads to foaming.
1. During the application, wear head and wrist bands to avoid sweat falling onto the uncured material.

IMPORTANT
No application on rising moisture
Do not apply on substrates with rising moisture.
IMPORTANT
Damaged finish due to heating with fossil fuel heaters
Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.
1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

IMPORTANT
Indentations in resin due to high temperature combined with high point loading
Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading may lead to indentations in the resin.
Exact colour matching
Note: For exact colour matching, ensure the Product in each area is applied from the same control batch number.
Degradation of the Product due to UV exposure
Note: In smooth applications with sun light exposure use Sikafloor®-3570 or Sikafloor®-305 W as seal coat.
SELF-SMOOTHING WEARING LAYER
1. Pour the mixed Product onto the substrate. For the consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. To achieve a smooth finish, smooth the surface with the flat side of a trowel.
4. Back roll the surface in two directions at right angles with a steel spike roller.

SLIP-RESISTANT BROADCAST LAYER
1. Pour the mixed Product onto the prepared substrate.
2. Apply the Product evenly over the surface with a trowel.
3. Back-roll the surface in two directions at right angles with a spike roller.
4. Allow the product to cure for 15 minutes. Note Times are temperature dependant. Times given are for +20 °C.
5. Broadcast the surface with quartz sand or silicon carbide, lightly at first, then to excess.Note The aggregate is dependant on the system build-up. Refer to the relevant System Data Sheet.
6. Allow the surface to become tack-free.
7. Remove all loose sand with industrial vacuuming equipment.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened 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.

Sika South Africa (Pty) Ltd
9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za