

# PRODUCT DATA SHEET

## Sikafloor®-376

Crack-bridging, self-smoothing, phthalate-free, polyurethane flooring resin

### DESCRIPTION

Sikafloor®-376 is a 2-part polyurethane, coloured, low-viscosity, phthalate-free flooring resin for medium to heavy wear conditions. It provides a hard-wearing finish and a slip-resistant finish when broadcast with different aggregate grades.

### USES

Sikafloor®-376 may only be used by experienced professionals.

The Product is used as a:

- Broadcast, slip-resistant wearing course with good crack-bridging ability

The Product is used for:

- Interior and exterior use

Please note:

- The Product may only be used by experienced professionals.

### CHARACTERISTICS / ADVANTAGES

- Good crack-bridging ability
- Good mechanical resistance
- Impermeable to liquids
- Low maintenance
- Easy to apply
- Low VOC emissions

### PRODUCT INFORMATION

#### Product Declaration

EN 1504-2: Surface protection product for concrete - Coating  
EN 13813: Resin screed material for internal use in buildings

#### Chemical Base

Polyurethane

#### Packaging

Container Part A	9 kg
Container Part B	21 kg
Container Part A + Part B	30 kg

### ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- Sikafloor®-376 is listed on the Eco-Product Directory as environmentally friendly product choice for green building initiatives. (application no.: PL-01565-2023)

### APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- 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

Refer to the current price list for available packaging variations.

<b>Shelf Life</b>	12 months from date of production		
<b>Storage Conditions</b>	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 packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
<b>Appearance / Colour</b>	Part A	Light brown, liquid	
	Part B	Transparent, liquid	
	Cured appearance	Smooth, matt finish	
	Cured colour	Light brown	
<b>Density</b>	Mixed Product	1.19 kg/l	(EN ISO 2811-1)
<b>Solid Content by Weight</b>	100 %		
<b>Solid Content by Volume</b>	100 %		

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	Cured 14 days at +23 °C	≥ 60	(EN ISO 868)
<b>Tensile Strength</b>	≥ 5,0 N/mm <sup>2</sup> (14 d / 23 °C / 50 % r.h.)		(DIN 53 504)
<b>Elongation at Break</b>	Cured 14 days at +23 °C	500 %	(DIN 53504)
<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)		(EN 1542)
<b>Thermal Resistance</b>	Dry heat in the short term +80 °C		

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B (by weight)	30 : 70
<b>Consumption</b>	Filled	1.2 kg/m <sup>2</sup> per mm thickness
<b>Product Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Ambient Air Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Relative Air Humidity</b>	Maximum	80 % r.h.
<b>Dew Point</b>	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.	
<b>Substrate Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Substrate Moisture Content</b>	Refer to the individual primer Product Data Sheet.	
<b>Pot Life</b>	+10 °C	60 minutes
	+20 °C	30 minutes
	+30 °C	15 minutes
<b>Curing Time</b>	Before applying Sikafloor®-376 on Sikafloor®-156/161 allow:	

Substrate temperature	Minimum	Maximum
+10 °C	1 day	3 days
+20 °C	12 hours	2 days
+30 °C	6 hours	1 day

Before applying Sikafloor®-377 on Sikafloor®-376 allow:

Substrate temperature	Minimum	Maximum
+10 °C	1 day	2 days
+20 °C	15 hours	1 day
+30 °C	8 hours	16 hours

Before applying top coat on broadcast Sikafloor®-376 allow:

Substrate temperature	Minimum	Maximum
+10 °C	1 day	-*
+20 °C	15 hours	-*
+30 °C	8 hours	-*

\* No maximum waiting time with broadcast surfaces.

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

### Applied Product Ready for Use

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

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	1 day	5 days	10 days
+20 °C	15 hours	3 days	7 days
+30 °C	8 hours	2 days	5 days

## 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

## LIMITATIONS

- A top / seal coat must be used on top of Sikafloor®-376.
- After application, Sikafloor®-376 must be protected from damp, condensation and direct water contact (rain) for at least 24 hours.
- Construction joints and existing static surface cracks in substrate require pre-treating with a stripe coat by prefilling and levelling to seal against loss of material through the joint or cracks before full layer application. Use Sikadur® or Sikafloor® resins.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective surface cracking.
- If 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.
- Seal / Top coat consumption will vary depending on

sand granulometry.

- Discard any material over the pot life recommendations.
- Do not apply on substrates with rising moisture.
- Do not apply to porous surfaces where significant moisture vapour transmission (out-gassing) will occur during application.
- Uneven application of the coating, resulting in variable coating layer thicknesses, may cause 'gloss' differences in the surface finish.

## 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.

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### VOC DATA

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-264 is < 500 g/l VOC for the ready to use product.

# APPLICATION INSTRUCTIONS

## EQUIPMENT

### MIXING EQUIPMENT

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

### APPLICATION EQUIPMENT

- Pin leveller
- Trowels, including serrated
- Spiked roller

## SUBSTRATE QUALITY

### IMPORTANT

#### **Incorrect treatment of cracks**

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

### TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treatment 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<sup>2</sup>) with a minimum tensile strength of 1.5 N/mm<sup>2</sup>.

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

## 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. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
5. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.

### SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES

For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.

## SUBSTRATE QUALITY / PRE-TREATMENT

### **Concrete and cementitious screeds**

Cementitious substrates (concrete / screed) must be

structurally sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum tensile strength of 1,5 N/mm<sup>2</sup>.

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.

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-376.

All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

## MIXING

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved.
4. If required 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.

## 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

#### **Uncured material reacts with water**

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

#### Surface exposure

Do not leave the surface of the Product exposed, application of a seal coat is mandatory.

#### SELF-SMOOTHING WEARING LAYER

1. Pour the mixed Product onto the substrate. Note The consumption is specified in 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 serrated trowel.
3. Back roll the surface in two directions at right angles with a steel spike roller.
4. 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.
5. Allow the Product to initially cure and use vacuum extraction equipment to remove all loose sand.

#### 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, sub-

strates 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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#### Product Data Sheet

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