

PRODUCT DATA SHEET

Sikafloor®-3000

2-part elastic, aliphatic, low VOC, self-smoothing polyurethane resin, part of the Sika Comfort-Floor® range.

PRODUCT DESCRIPTION

Sikafloor®-3000 is a two part, aliphatic, solvent free, very low VOC emission certified, elastic, self-smoothing polyurethane resin.

USES

Sikafloor®-3000 may only be used by experienced professionals.

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CHARACTERISTICS / ADVANTAGES

- Very low VOC emission
- Solvent free
- Comfortable
- Footwarm
- Reduces footfall sound
- Permanently elastic
- Good mechanical resistance
- Very high yellowing resistance
- Decorative designs possible using coloured chippings etc.
- Easy to apply
- Low maintenance finish

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- IBU Environmental Product Declaration (EPD) available

APPROVALS / STANDARDS

- Coating for concrete protection according to the requirements of EN 1504-2:2004 and the EN 13813:2002, DoP 0208120400200000251041 certified by Factory Production Control Body, 0620 and provided with the CE-mark.
- Emission tested according to the 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, Eurofins Report No 392-2014-00156502_02.
- Reaction to Fire classification according to DIN EN 13501-1 Class Bfl/S1 for Sika® ComfortFloor® Decorative system, report 14-529 Universiteit Gent.

PRODUCT INFORMATION

Chemical Base	PU-polyurethane	
Packaging	Part A	15.0 kg containers
	Part B	5.0 kg containers
	Part A+B	20.0 kg ready to mix units
Appearance / Colour	Resin - part A	coloured, liquid
	Hardener - part B	transparent, liquid
Available in Steely Glimpse, Amberish Grey, Brilliant Blue, Sea Mist, Sky		

Line, Spring Grass, Concrete Grey, Latte Macchiato, Light Ivory, Black, Frosty Tree, Sweet Citrus, Sunfire, Brown Beige, Bordeaux Wine.
Note: With bright colours such as yellow , orange etc., colour variations may occur

Shelf Life	12 months from date of production		
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.		
Density	Part A	~ 1.45 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.16 kg/l	
	Mixed resin	~ 1.40 kg/l	
	All Density values at +23°C		
Solid Content	~ 100% (by volume) / ~ 100% (by weight)		

TECHNICAL INFORMATION

Shore Hardness	Shore A: ~ 84 (14 days / +23°C)	(DIN 53505)
Tensile Strength	~ 6.0 N/mm ² (14 days / +23°C)	(DIN 53504)
Elongation at Break	~ 70% (14 days / +23°C)	(DIN 53504)
Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete)	(EN 13892-8)
Tear Strength	~ 18 N/mm (14 days / +23°C)	(ISO 34-1)
Chemical Resistance	Sikafloor®-3000 always has to be sealed with Sikafloor®-304 W. Therefore, refer to chemical resistance chart of Sikafloor®-304 W.	

SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of:	
	Sika Comfortfloor® PS-24	Seamless, smooth, low voc, elastic, polyurethane floor covering with optional colour flakes
	Sika Comfortfloor® PS-64	Seamless, smooth, low voc, sound insulating elastic polyurethane floor covering with optional colour flakes
	Sika Comfortfloor® PS-66	Seamless, smooth, low voc, elastic, polyurethane floor covering with optional colour flakes

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 75 : 25 (by weight)
Consumption	Please refer to the System Data Sheet
Layer Thickness	Sikafloor®-3000 is typically installed at 2,8 kg/m ² giving a 2 mm nominal thickness.
Product Temperature	+15°C min. / +30°C max.
Ambient Air Temperature	+15°C min. / +30°C max.
Relative Air Humidity	80% r.h. max.
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	+15°C min. / +30°C max.

Substrate Moisture Content

< 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	~ 120 minutes
	+20°C	~ 90 minutes
	+30°C	~ 45 minutes

Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+10°C	~ 30 hours	~ 48 hours	~ 6 days
	+20°C	~ 16 hours	~ 24 hours	~ 4 days
	+30°C	~ 12 hours	~ 18 hours	~ 3 days

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

Refer to the System Data Sheets of the Sikafloor®-PS24 system (Sika® Comfortfloor® Decorative) and Sikafloor®-PS26 system (Sika® Comfortfloor® Decorative Pro) for information on systems being ready for use.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.
- Substrate Preparation. Concrete substrates must be prepared mechanically using vacuum assisted shot blasting, scabbling / scarifying or diamond grinding equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.
- The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.
- High spots must be removed by e.g. grinding.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Please refer to the Sika Method Statement Mixing & Application

APPLICATION

Please refer to the Sika Method Statement Mixing & Application

Self-smoothing system 2.0 mm:

Sikafloor®-3000 is poured and spread evenly by means of a serrated trowel or pinrake. If desired broadcast slightly and evenly with Sikafloor® Colourchips. If during application locally some imperfections become visible, like pigment floatation, this local spot can be treated immediately with a spike roller to eliminate

the imperfection.

Tools for application:

- Serrated trowel for smooth wearing layer: e.g. Large-Surface Scrapper No. 565, Toothed blades No. 25
- Recommended supplier of tools:

TECHNO-Werkzeuge A.E; Vertriebs GmbH
Dieselstr. 44; 42579 Heiligenhaus, Phone: 02056 / 9846-0, Info@Techno-Vertrieb.de; Homepage: <http://www.techno-vertrieb.de>
PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com.

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.

Please refer to the Sika Method Statement Mixing & Application

MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-3000 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.

Please refer to the "Sikafloor®- Cleaning Regime with cleaning agents from Diversey Care TM"

FURTHER DOCUMENTS

Substrate quality & Preparation

Please refer to Sika Information Manual: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Information Manual: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITATIONS

Please note:

Freshly applied Sikafloor®-3000 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®-3000 (wear head and wrist bands) For exact color matching, ensure the Sikafloor®-3000 in each area is applied from the same control batch number. Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin. If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

VALUE BASE

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.

ECOLOGY, HEALTH AND SAFETY

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 (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-3000 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 war-

ranty 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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Product Data Sheet

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August 2020, Version 02.04
020812040020000025

Sikafloor-3000-en-GB-(08-2020)-2-4.pdf