BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-3000

2-PART ELASTIC, ALIPHATIC, LOW VOC, SELF-SMOOTHING POLYURETHANE RESIN, PART OF THE SIKA COMFORTFLOOR® RANGE

CE

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.
- Elastic smooth wearing course for Sika Comfortfloor® range
- For decorative floor finishes
- Particularly suitable for hospitals, schools, sales premises, showrooms, entrance halls, lobbies, open-plan offices, museums and residential use.
- For interior use only

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

SUSTAINABILITY

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

APPROVALS / CERTIFICATES

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 0208120400200000251041, certified by notified factory production control certification body 0620, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 0208120400200000251041, certified by notified factory production control certification body 0620, and provided with the CE marking.
- 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 as substrate and in almost unlimited choice of colour shades. 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 by weight	~100 %	
Solid content by volume	~100 %	

TECHNICAL INFORMATION

Shore A Hardness	~84 (14 days / +23 °C)	(DIN 53505)
Tensile Strength	~ 8.0 N/mm² (14 days / +23 °C)	(DIN 53504)
Elongation at Break	~ 70 % (14 days / +23 °C)	(DIN 53504)
Tensile Adhesion Strength	> 1.5 N/mm² (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 of Sikafloor®-304 W.	

SYSTEMS

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	Seamess, 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	~ 1.4 kg/m²/mm
Layer Thickness	2.80 kg/m² - film thickness ~ 2.0 mm. Refer to the System Data Sheet.
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

Curing Time

Before overcoating Sikafloor®-3000 allow:

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

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.

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 off strength shall not be less than 1.5 N/mm^2. 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. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

Mixing Tools

Sikafloor®-3000 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®-3000 is poured and spread evenly by means of a serrated trowel or pin rake. Once Sikafloor®-3000 is “tack-free” apply the seal coat.

CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

FURTHER DOCUMENTS

Substrate Quality & Preparation
Please refer to Sika Method Statement: “EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS”.
Application Instructions
Please refer to Sika Method Statement: “MIXING & APPLICATION OF FLOORING SYSTEMS”.
Maintenance
Please refer to “Sikafloor®- CLEANING REGIME”.

LIMITATIONS

- 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 colour 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 CO_2 and H_2O 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.All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary

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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

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.

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

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