

PRODUCT DATA SHEET

Sikafloor®-3000 FX

2-PART ELASTIC, ALIPHATIC, LOW VOC, SELF-LEVELING POLYURETHANE RESIN, PART OF THE SIKA COMFORTFLOOR® MARBLE FX

DESCRIPTION

Sikafloor®-3000 FX is a 2-part, aliphatic, very low VOC emission certified, elastic, self-smoothing polyurethane resin, providing the decorative effects in the Sika Comfortfloor® Marble FX flooring system.

USES

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

- Elastic smooth wearing course for Sika Comfortfloor® Marble FX
- For highly decorative floor finishes where multi-colored design is required
- Particularly suitable for hospitals, schools, sales premises, showrooms, entrance halls, lobbies, openplan offices, museums and residential use.
- For interior use only

CHARACTERISTICS / ADVANTAGES

- Very low VOC emission
- Comfortable
- Footwarm
- Permanently elastic
- Good mechanical resistance
- Very high yellowing resistance
- Decorative designs due to the special blend of pigments.
- Easy to apply
- Low maintenance finish

SUSTAINABILITY

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

PRODUCT INFORMATION

Composition	PUR	
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 various colour shades, refer to Sika Comfortfloor colour chart.		
Shelf life	12 months from date of production	
Storage conditions	The product 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 FX always has to be sealed with Sikafloor®-306 W. Therefore, refer to chemical resistance of Sikafloor®-306 W.

SYSTEMS

Systems Refer to the System Data Sheet of:
Sika Comfortfloor® Marble FX Seamless, smooth, low voc, elastic, polyurethane floor covering with special marble decorative effects.

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 FX 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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrates 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. Concrete tensile strength shall not be less than 1.5 N/mm². 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 FX 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 FX is poured and spread evenly by means of a serrated trowel or pin rake and finished with a flat trowel, spatula or similar. Once Sikafloor®-3000 FX is “tack-free” apply the seal coat.

CLEANING OF EQUIPMENT

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 INFORMATION

Substrate Quality & Preparation

Refer to Sika Method Statement: EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS.

Application Instructions

Refer to Sika Method Statement: MIXING & APPLICATION OF FLOORING SYSTEMS.

Maintenance

Refer to Sikafloor®- CLEANING REGIME.

IMPORTANT CONSIDERATIONS

- Freshly applied Sikafloor®-3000 FX 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 FX (wear head and wrist bands).
- For exact colour matching, ensure the Sikafloor®-3000 FX 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.

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.

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 FX 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.

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