

PRODUCT DATA SHEET

Sikafloor®-300

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

PRODUCT DESCRIPTION

Sikafloor®-300 is a two part, aliphatic, solvent free, very low VOC emission certified, elastic, self-smoothing polyurethane resin. The product is containing epoxy paste mixed in its substrate for a broad color range.

USES

Sikafloor®-300 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

APPROVALS / STANDARDS

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.

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	Part A	15.00 kg containers
	Part B	5.00 kg containers
	Part A+B	20.00 kg containers
Appearance / Colour	Part A resin	coloured liquid
	Part B hardener	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	
	Part A+B mixed	~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)
Shore Hardness		
Tensile Strength	~ 8.0 N/mm ² (14 days / +23 °C)	(DIN 53504)
Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	(EN 13892-8)
Chemical Resistance	Sikafloor®-300 always has to be sealed with Sikafloor®-304 W. Therefore, refer to chemical resistance 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	~1.4 kg/m ² /mm	
Layer Thickness	2.80 kg/m ² - film thickness ~2.0 mm. Refer to the System Data Sheet.	
Ambient Air Temperature	+15 °C min. / +30 °C max.	
Relative Air Humidity	80 % 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	Temperature	Time
	+10 °C	~120 minutes
	+20 °C	~90 minutes
	+30 °C	~45 minutes

Curing Time

Before overcoating Sikafloor®-300 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/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®-300 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®-300 is poured and spread evenly by means of a serrated trowel or pin rake. Once Sikafloor®-300 is “tack-free” apply the seal coat.

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

Refer to the method statement Sikafloor®- Cleaning Regime with cleaning agents from Diversey Care™

FURTHER DOCUMENTS

Substrate Quality and Preparation

Please refer to Sika Information Manual: “EVALUATION AND PREPARATION OF SURFACES FOR FLOOR-

ING SYSTEMS”.

Application Instructions

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

Maintenance

Please refer to “Sikafloor®- CLEANING REGIME”.

LIMITATIONS

- Freshly applied Sikafloor®-300 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®-300 (wear head and wrist bands).
- For exact colour matching, ensure the Sikafloor®-300 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

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®-300 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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