

PRODUCT DATA SHEET

Sikafloor®-320

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

DESCRIPTION

Sikafloor®-320 is a two part, solvent free, low VOC emission certified, elastic, self-smoothing polyurethane base layer resin providing acoustic insulation.

USES

Sikafloor®-320 may only be used by experienced professionals.

Sikafloor®-320 is used:

- As elastic smooth base layer course for Sika Comfort-Floor® range
- For acoustic insulation
- Particularly 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
- Solvent free
- Comfortable
- Footwarm
- Reduces footfall sound and contact noise

- Permanently elastic
- Crack bridging
- Good mechanical resistance
- Easy to apply

ENVIRONMENTAL INFORMATION

LEED Rating

Sikafloor®-320 conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings

EPA Reference Test Method 24 VOC Content < 100 g/l

APPROVALS / STANDARDS

- 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.
- Reaction to Fire classification according to DIN EN 13501-1.
- Impact sound reduction according EN ISO 140-8
- Castor wheel suitability TFI Aachen

PRODUCT INFORMATION

Chemical base	PU-polyurethane	
Packaging	Part A:	13.2 kg pail
	Part B:	1.8 kg pail
	Mix A+B:	15 kg ready to mix units
Appearance / Colour	Resin - part A:	coloured, liquid
	Hardener - part B:	transparent, liquid
Mixed product is available in grey color.		
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:	~ 0.95 kg/l	(DIN EN ISO 2811-1)
	Part B:	~ 1.20 kg/l	
	Mixed Resin:	~ 1.0 kg/l	
	All Density values at +23 °C.		
Solid content by weight	~100 %		
Solid content by volume	~100 %		

TECHNICAL INFORMATION

Shore A Hardness	~ 60 (14 days / +23 °C)	(DIN 53505)
Tensile Strength	~ 1.0 N/mm ² (14 days / +23 °C)	(DIN 53504)
Elongation at Break	~ 300 % (14 days / +23 °C)	(DIN 53504)
Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	(EN 13892-8)
Tear Strength	~ 11 N/mm (14 days / +23 °C)	(ISO 34-1)

SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of:	
	Sika Comfortfloor® PS-63	Seamless, smooth, unicolour, low voc, sound insulating elastic polyurethane floor covering
	Sika Comfortfloor® PS-64	Seamless, smooth, low voc, sound insulating elastic polyurethane floor covering with optional colour flakes

APPLICATION INFORMATION

Mixing ratio	Part A : part B = 88 :12 (by weight)	
Consumption	~ 1.0 kg/m ² /mm	
Layer Thickness	~ 3.5 mm film thickness. Refer to the respective Systems Data Sheets.	
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	Temperature	Time
	+15 °C	~ 120 minutes
	+20 °C	~ 90 minutes
	+30 °C	~ 45 minutes

Curing time

Before overcoating Sikafloor®-320 allow:

Substrate temperature	Minimum	Maximum
+15 °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	Full cure
+15 °C	~ 24 hours	~ 10 days
+20 °C	~ 18 hours	~ 7 days
+30 °C	~ 16 hours	~ 5 days

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 of 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.

Sikafloor®-320 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®-320 is poured and spread evenly by means of a serrated trowel or pin rake. If during application locally some imperfections become visible, like trowel marks, this local spot can be treated immediately with a spike roller to eliminate the imperfection.

CLEANING OF TOOLS

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

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®-320 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®-320 (wear head and wrist bands). 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. 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®-320 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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Sikafloor-320_en_GR_(12-2016)_2_1.pdf

Product Data Sheet
Sikafloor®-320
December 2016, Version 02.01
020812040020000084