

PRODUCT DATA SHEET

Sikafloor®-330

2-part PUR part of the Sika ComfortFloor and Sika ComfortFloor Pro System

DESCRIPTION

Sikafloor-330 is a two part, solvent free, very low VOC emission certified, elastic, self-smoothing PUR resin.

USES

Sikafloor®-330 may only be used by experienced professionals.

- Elastic smooth wearing course for the Sika ComfortFloor and Sika ComfortFloor Pro Systems
- Particularly suitable for hospitals, schools, sales premises, showrooms, entrance halls, lobbies, open-plan offices, museum
- For interior use only

CHARACTERISTICS / ADVANTAGES

- Very low VOC emission
- Solvent free
- Permanently elastic (crack bridging)
- Good mechanical resistance
- Reduces footfall sound
- Easy to apply
- Low maintenance finish

APPROVALS / CERTIFICATES

Eurofins 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, Report No. 765863F.

USGBC LEED RATING

Sikafloor-330 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

PRODUCT INFORMATION

Composition	PUR
Packaging	Part A+B: 20.0 kg ready to mix units Part A: 15.8 kg containers Part B: 4.2 kg containers
Appearance / Colour	Resin - part A: coloured, liquid Hardener - part B: light brown, transparent, liquid Ca. 100 colour shades available. Grey white, beige, light grey, middle grey, dark grey, light blue, dark blue, light green, dark green, red. Be aware that the colour of the Sikafloor-330 has to be approx. adjusted to the colour of the Sikafloor-305 W.
Shelf life	6 months from date of production.

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Storage conditions

The product should be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.
 Prolonged vibrations and higher ambient temperatures during transportation can result in settling of the A Component, which makes mixing more difficult.
 Prolonged storage at low temperatures can result in crystallizing of the B Component.

Density	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	Resin: ~ 80 (14 days / +23°C)	DIN 53505
Abrasion Resistance	Resin: ~ 25 N/mm (14 days / +23°C)	ISO 34-1
Tensile Strength	Resin: ~ 8.0 N/mm ² (14 days / +23°C)	DIN 53504
Elongation at Break	Resin: ~ 180 % (14 days / +23°C)	DIN 53504
Tear Strength	> 1.5 N/mm ² (failure in concrete)	EN 13892-8
Chemical Resistance	Sikafloor-330 always has to be sealed with Sikafloor-305 W. Therefore, refer to chemical resistance chart of Sikafloor-305 W.	

SYSTEM INFORMATION

System	Sika ComfortFloor:	
	Primer	1-2 x Sikafloor-156 / -161
	Wearing course	1 x Sikafloor-330
	Seal coat (mandatory)	1-2 x Sikafloor-305 W
System	Sika ComfortFloor Pro:	
	Primer	1 x Sikafloor Comfort Adhesive
	Rubber Shockpad	1 x Sikafloor Comfort-Regupol 6015 H
	Porefiller	1-2 x Sikafloor Comfort Porefiller
	Wearing course	1 x Sikafloor-330
	Seal coat (mandatory)	1-2 x Sikafloor-305 W

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 79 : 21 (by weight)		
Consumption	Coating System	Product	Consumption
	Primer	1-2 x Sikafloor-156/-161	1-2 x ~ 0.3 - 0.5 kg/m ²
	Levelling (if required)	Sikafloor-161 levelling mortar	Refer to PDS of Sikafloor-161
	Self-smoothing wearing course (film thickness ~ 2.0 mm)	Sikafloor-330	~ 2.80 kg/m ²
	Seal coat	Sikafloor-305 W	1-2 x ~0.13 kg/m ²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Ambient Air Temperature	+10°C min. / +30°C max.
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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. Note: Low temperatures and high humidity conditions increase the probability of blooming.	
Substrate Temperature	+10°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	~ 21 minutes
	+20°C	~ 15 minutes
	+30°C	~ 12 minutes

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

Curing Time	Before applying Sikafloor-330 on Sikafloor-161 allow:		
	Substrate temperature	Minimum	Maximum
	+10°C	24 hours	3 days
	+20°C	12 hours	2 days
	+30°C	6 hours	1 day
	Before applying Sikafloor-305 W on Sikafloor-330 allow:		
	Substrate temperature	Minimum	Maximum
	+10°C	24 hours	72 hours
	+20°C	18 hours	48 hours
	+30°C	16 hours	36 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
If maximum waiting time is exceeded, the Sikafloor-326 surface have to be grinded to get mechanical bonding between the Sikafloor layers.

Applied Product Ready for Use	Temperature	Light traffic	Full cure
	+10°C	24 hours	72 hours
	+20°C	18 hours	60 hours
	+30°C	16 hours	48 hours

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

SUBSTRATE QUALITY

The 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 abrasive blast cleaning or scarifying 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

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removed from all surfaces before application of the product, preferably by brush and/or vacuum.

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-330 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, r.h. and dew point. If > 4% pbw moisture content, Sikafloor EpoCem may be applied as a T.M.B. (temporary moisture barrier) system.

Primer:

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor-156 /161 by brush, roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.

Levelling:

Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor-161 levelling mortar (see PDS).

Self-smoothing system 2.0 mm:

Sikafloor-330 is poured and spread evenly by means of a serrated trowel. Roll immediately in two directions with a spiked roller to ensure even thickness and to remove entrapped air. Once Sikafloor-330 is "tack-free" apply the seal coat.

Seal coat:

Top coats are uniformly spread using a short pile roller. Sikafloor-305 W can also be applied by airless spraying. Please refer to the product data sheet of Sikafloor-305 W.

A seamless finish can be achieved if a "wet" edge is maintained during application.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

MAINTENANCE

To maintain the appearance of the floor after application, the Topcoat Sikafloor-305 W must have all spillages removed immediately and be regularly cleaned. Please refer to the "General maintenance tips and recommended cleaning procedures" for the Sika ComfortFloor Systems.

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IMPORTANT CONSIDERATIONS

Do not apply Sikafloor-330 on substrates with rising moisture.

Do not apply on substrate surfaces with a slope > 1%. Freshly applied Sikafloor-330 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-330 (wear head and wrist bands)

Tools

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.

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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

CE-MARK

Please refer to Declaration of performance.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet

Sika Deutschland GmbH

Kornwestheimer Straße 103 - 107
D - 70439 Stuttgart
Telefon: 0711/8009-0
Telefax: 0711/8009-0
E-Mail: info@de.sika.com
www.sika.de



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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-330 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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