

Product Data Sheet
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Sikafloor®-326

Sikafloor®-326

2-part PUR tough-elastic, low-VOC, self-smoothing floor

Product Description

Sikafloor®-326 is a two part solvent free coloured self-smoothing PUR resin with tough-elastic properties.

Uses

- Smooth wearing course with crack-bridging properties for industrial floors in production and storage facilities, work shops etc.
- Broadcast wearing course with crack-bridging properties for wet working areas (food and beverage industry etc.), car park decks and loading ramps etc.
- Can be subjected to normal to medium heavy mechanical and chemical stress

Characteristics / Advantages

- Flexible and tough-elastic
- Crack-bridging
- Good chemical and mechanical resistance
- Low VOC emitting
- Solvent-free
- Possible slip resistant surface
- Liquid proof
- Easy to apply
- Easy to clean
- Economical

Product Data

Form

Appearance / Colours

Resin - part A: coloured, liquid

Hardener - part B: brownish, liquid

Standard colour on stock RAL 7032

Extended Colour Range on request:

RAL1001, 3009, 5017, 7023, 7030, 7031, 7032, 7035, 7038, 7040, 7042, 7044, 9018.

Under direct sun radiation there will be discolouration and colour deviation; this has no influence to the function and performance of the coating.

Application steps and the use of different batch numbers during one project might lead to a colour variation.

For areas with aesthetical requirements, the use of Sikafloor®-357 N or Sikafloor®-305W as seal coat is recommended.

Construction



Approval / Standards	Fire classification in the radiant panel apparatus and smoke rating: Reports No. 2011-1895 and 2011-1896 Exova Brandhaus Germany									
Packaging	Part A:	16,05kg containers								
	Part B:	5,95 kg containers								
	Part A+B:	22 kg ready to mix units								
Storage										
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.									
Technical Data										
Chemical Base	Polyurethane (PUR)									
Density	Part A:	1.3 kg/l								
	Part B:	1.2 kg/l								
	Mixed Resin (unfilled):	1.25 kg/l								
	Mixed Resin (filled 1:0,7)	1.6 kg/l								
	Filling 1:0.7 with quartz sand F36 0.08 – 0.25mm									
	All Density values at +23°C									
Solid Content	~ 100% (by volume) / ~ 100% (by weight)									
Mechanical / Physical Properties										
Compressive Strength	Resin filled (1 : 0.7) ~ 53 N/mm ² (after 28 days at +23°C)	(EN 196-1)								
Flexural Strength	Resin filled (1 : 0.7) ~ 22 N/mm ² (after 28 days at +23°C)	(EN 196-1)								
Tensile Strength	Resin: ~ 15 N/mm ² (after 28 days, at +23°C)	(ISO 527-2)								
	Resin filled (1 : 0.7) ~9 N/mm ² (after 28 days, at +23°C)	(ISO 527-2)								
Bond Strength	> 1.5 N/mm ² (failure in concrete)	(EN 1542)								
Tear Strength	Resin: ~ 74 N/mm (after 28 days, at +23°C)	(ISO 34-1)								
	Resin filled (1 : 0.7): ~ 32 N/mm ² (after 28days, at +23°C)									
Shore D Hardness	Resin: 78 (28 days / +23°C / 50% r.h)	(ISO 868)								
Elongation at Break	Resin: ~ 90% (28 days / +23°C / 50% r.h)	(ISO 527-2)								
	Resin filled (1 : 0.7): ~22% (28 days / +23°C / 50% r.h)	(ISO 527-2)								
Abrasion Resistance	Resin: ~70 mg (CS 10/1000/1000)	(ISO 5470-1)								
	Resin filled (1 : 0.7) ~ 59 mg (CS 10/1000/1000)	(ISO 5470-1)								
Resistance										
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.									
Thermal Resistance	<table border="1"> <tr> <td>Exposure*</td> <td>Dry heat</td> </tr> <tr> <td>Permanent</td> <td>+50°C</td> </tr> <tr> <td>Short-term max. 7d</td> <td>+80°C</td> </tr> <tr> <td>Short-term max. 8h</td> <td>+100°C</td> </tr> </table>		Exposure*	Dry heat	Permanent	+50°C	Short-term max. 7d	+80°C	Short-term max. 8h	+100°C
Exposure*	Dry heat									
Permanent	+50°C									
Short-term max. 7d	+80°C									
Short-term max. 8h	+100°C									
	*No simultaneous chemical and mechanical exposure.									
	Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.)									
USGBC	Sikafloor®-326 conforms to the requirements of LEED									
LEED Rating	EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings									
	SCAQMD Method 304-91 VOC Content < 100 g/l									

System Information

System Structure

Self-smoothing system 1.5 - 2.0 mm:

Primer: 1-2 x Sikafloor®-156ZA/-161
 Coating: 1 x Sikafloor®-326 + quartz sand (F 36 : 0.08 - 0.25 mm)
 Top Coat (optional): 1-2x Sikafloor® 357 N or Sikafloor® 305W

Broadcast system approx. 3 mm (single layer system):

Primer: 1-2 x Sikafloor®-156ZA/-161
 Base coat: 1 x Sikafloor®-326 + quartz sand (F 36 : 0.08 - 0.25 mm)
 Broadcasting: quartz sand (0.4 - 0.7 mm) broadcast to excess
 Seal coat: 1-2x Sikafloor® 357 N or 1-2 x Sikafloor®-359 N*

Broadcast system approx. 4 mm (2 layers system with improved crack bridging properties):

Primer: 1-2 x Sikafloor®-156ZA/-161
 Membrane: 1 x Sikafloor®-326
 Base coat: 1 x Sikafloor®-326 + quartz sand (F 36 : 0.08 - 0.25 mm)
 Broadcasting: quartz sand (0.4 - 0.7 mm) broadcast to excess
 Seal coat: 1-2x Sikafloor® 357 N or 1-2 x Sikafloor®-359 N*

*For Outdoor UV-exposed areas the use of Sikafloor®-359 N as a seal coat is mandatory.

For application on inclined surfaces:

Same systems as described above with the addition of Extender T to the Sikafloor®-326.

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Primer	1-2 x Sikafloor®-156ZA/-161	1-2 x ~0.15 – 0.2 Ltr/m ²
Levelling (optional)	Sikafloor®-156ZA/-161 levelling mortar	Refer to PDS of Sikafloor®-156ZA/-161
Self-smoothing system 1.5 - 2.0 mm	1 pbw Sikafloor®-326 0.7 pbw quartz sand (F 36 (0.08 - 0.25 mm)) mm +	~1.60 kg/m ² mixture (0.94 kg/m ² binder + 0.66 kg/m ² quartz sand) per mm layer thickness
Topcoat	1-2 x Seal coat Sikafloor®-357N or Sikafloor®- 305W	~0,14 kg/m ² ,
Broadcast system approx. 3 mm (single layer system):		
Basecoat	1 pbw Sikafloor®-326 0.7 pbw quartz sand (F 36 (0.08 - 0.25 mm)) + broadcast quartz sand 0.4 - 0.7 mm	~1.60 kg/m ² mixture (0.94 kg/m ² binder + 0.66 kg/m ² quartz) ~ 4.0 kg/m ²
Topcoat	1-2x Sikafloor® 357 N or 1-2 x Seal coat Sikafloor®-359 N*	~ 0.7 kg/m ²

Broadcast system approx. 4 mm (2- layers system with improved crack bridging properties)		
Membrane	Sikafloor®-326	1.20 kg/m ²
Basecoat	1 pbw Sikafloor®-326 0.7 pbw quartz sand (F 36 (0.08 - 0.25 mm)) + broadcast quartz sand 0.4 - 0.7 mm +	~2.50 kg/m ² mixture (1.47 kg/m ² binder + 1.03 kg/m ² quartz) ~ 4.0 kg/m ²
Topcoat	1-2x Sikafloor® 357 N or 1-2 x Seal coat Sikafloor®-359 N*	~ 0.7 kg/m ²
For application on inclined surfaces	Inclination (%) 0 - 2.5 2.5 - 5.0 5.0 - 10.0 10 - 15 15 - 20	Extender T (wt.-%, related to Sikafloor®-326 at t +20°C) - 1 2 2.5 3

* For outdoor UV-exposed areas the use of Sikafloor®-359 N as a seal coat is mandatory.

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

Substrate Quality

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

Application Conditions / Limitations

Substrate Temperature +10°C min. / +25°C max.

Ambient Temperature +10°C min. / +25°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).

Relative Air Humidity 70% r.h. max.

Dew Point Beware of condensation!
The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing

Part A : part B = 73 : 27 (by weight)

Mixing Time

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.

When parts A and B have been mixed, add the quartz sand 0.08 - 0.25 and mix for a further 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®-326 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools

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®-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®-156ZA levelling mortar .

Self smoothing system:

Sikafloor®-326 is poured, spread evenly by means of a serrated trowel. Roll immediately in two directions with spiked roller to ensure even thickness and to remove entrapped air.

Broadcast system:

Sikafloor®-326 is poured, spread evenly by means of a serrated trowel. Then, level and remove entrapped air with a spiked roller and after about 10 minutes (at +20°C) but before 20 minutes (at +20°C), broadcast with quartz sand, at first lightly and then to excess.

Seal coat Broadcasted system:

1-2 Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller.

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

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.

Potlife

Temperature	Time
+10°C	~ 40 minutes
+20°C	~ 20 minutes
+30°C	~ 10 minutes

Waiting Time / Overcoating

Before applying Sikafloor®-326 on Sikafloor®-156ZA/-161 allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	3 days
+20°C	12 hours	2 days
+30°C	6 hours	1 day

If maximum waiting time is exceeded, a new primer layer have to be applied.

Before applying Sikafloor®-326 on Sikafloor®-326 allow:

Substrate temperature	Minimum	Maximum
+10°C	30 hours	4 days
+20°C	24 hours	2 days
+30°C	16 hours	1 day

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®-326 layers.

Notes on Application / Limitations

Do not apply Sikafloor®-326 on substrates with rising moisture.

Freshly applied Sikafloor®-326 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®-326 (wear head and wrist bands).

Mixed material must be applied immediately as colourshade can vary when reaching end of potlife.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

In applications with sun light exposure use Sikafloor®-357 N or Sikafloor®-305W as seal coat.

For colour matching, ensure Sikafloor®-326 Comp. A and B is applied from the same control batch numbers.

Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.

If during application temporary 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.

Curing Details**Applied Product ready for use**

Temperature	Foot traffic	Light traffic	Full cure
+10°C	48 hours	5 days	14 days
+20°C	24 hours	3 days	7 days
+30°C	16 hours	2 days	5 days

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

Cleaning / Maintenance**Methods**

To maintain the appearance of the floor after application, Sikafloor®-326 must have all spillages removed immediately and be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc., using suitable detergents and waxes.

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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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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