

PRODUCT DATA SHEET

Sikafloor®-304 W

UV-stable, transparent, matte, water based PUR sealant, part of the Sika ComfortFloor

DESCRIPTION

Sikafloor®- 304 W is a matte, low-yellowing, low-emission, water-based, 2-component Polyurethane sealing. Totally solid according to test method **DEUTSCHE BAUCHEMIE**

USES

Sikafloor®-304 W may only be used by experienced professionals.

Transparent, matt sealant for the systems of the Sika ComfortFloor® and optionally Sikafloor® MultiDur series.

FEATURES

- non-yellowing
- low-emission according to AgBB test criteria
- transparent
- Water-based
- Low odour
- Easy to clean

CERTIFICATES AND TEST REPORTS

- Eurofins outgassing certificate in accordance with AgBB scheme and DIBt approval principles (tested in the system).
- Slip resistance
- Expert opinion: Compliance with the requirements for structural installations regarding health protection (AGB) Sikafloor® DecoDur ES-22 Granite (Z-156.605-1004)
- Fraunhofer IPA, Stuttgart: Particle emission ISO 14644-1 Class 2- Report No. SI 1008-533
- Fraunhofer IPA, Stuttgart: Particle emission GMP Class A Report No. SI 1008-533
- Fraunhofer IPA, Stuttgart: Biological resistance ISO-846: Very good- report-no. SI 1008-533
- Fraunhofer IPA, Stuttgart: Riboflavin test: Very good - Report No. SI1611-861
- Paint compatibility test according to PV 3.10.7-Standard
- CE marking (see declaration of performance)



PRODUCT INFORMATION

Composition	Polyurethane		
Packaging	Part A	6,0 kg	
	Part B	1,5 kg	
	Part A+B	7,5 kg	
Shelf life	Part A	6 months from production date	
	Part B	12 months from production date	
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.		
Appearance and colour	Resin - part A	white, liquid	
	Hardener - part B	yellowish, liquid	
	Sikafloor®-304 W is matt after final curing.		
Density	Part A	ca. 1,05 kg/l	(DIN EN ISO 2811-1)
	Part B	ca. 1,13 kg/l	
	Mixed resin	ca. 1,07 kg/l	
		(diluted with 5 % Water)	
	All Density values at +23°C		

TECHNICAL INFORMATION

Gloss level	Angel	Value	(ISO 2813)
	85°	< 55	
	60°	< 10	
Chemical resistance	see chemical resistance list		

SYSTEM INFORMATION

System	Sikafloor® DecoDur ES-22 Granite (ca. 2-3 mm)		
	Layer	Product	Consumption
	Wear coat	Sikafloor®- 169	¹⁾
	Seal coat	Sikafloor®- 304 W	ca. 0,13 kg/m ² pro
	¹⁾ refer to relevant product- / system data sheet		
	Sika Comfortfloor® PS-24 (ca. 2mm)		
	Layer	Product	Consumption
	Primer	Sikafloor®-150/-151/-701	0,3-0,5 kg/m ²
	Wear coat	Sikafloor®-3000 + broadcasted with Col-orchips (optional)	ca. 2,8 kg/m ²
	Seal coat	Sikafloor®-304 W	ca. 0,13 kg/m ²
	Sika Comfortfloor® PS-64 (ca. 6mm)		
	Layer	Product	Consumption
	Primer	Sikafloor®-150/-151/-701	ca. 0,3-0,5 kg/m ²
	Insulation layer	Sikafloor®-320 N	ca. 3,5 kg/m ²
	Wear coat	Sikafloor®-3000 + broadcasted with Col-orchips (optional)	ca. 2,8 kg/m ²
	Seal coat	Sikafloor®-304 W	ca. 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.

APPLICATION INFORMATION

Mixing ratio	Part A : part B = 80 : 20 (by weight)								
Ambient air temperature	Minimal + 10°C Maximal + 30°C								
Relative air humidity	Maximal 75 %								
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	Minimal + 10°C Maximal + 30°C								
Pot Life	<table><thead><tr><th>Temperature</th><th>Time</th></tr></thead><tbody><tr><td>+10°C</td><td>ca. 50 min.</td></tr><tr><td>+20°C</td><td>ca. 30 min.</td></tr><tr><td>+30°C</td><td>ca. 20 min.</td></tr></tbody></table>	Temperature	Time	+10°C	ca. 50 min.	+20°C	ca. 30 min.	+30°C	ca. 20 min.
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+20°C	ca. 30 min.								
+30°C	ca. 20 min.								

Caution: End of potlife is not noticeable.

The times given above are approximate and may vary with alternative environmental conditions.

Curing time	Before Sikafloor®-304 W overcoating allow:		
	Substrate temperature	Min.	Max.
	+10°C	26 hours	4 days
	+20°C	16 hours	3 days
	+30°C	12 hours	2 days

Values are based on a relative humidity of 70% and sufficient ventilation. Times are approximate and will change due to changing environmental conditions, especially temperature and humidity.

Applied product ready for use	Substrate temperature	Foot traffic	Light traffic	Full cure
	+10°C	ca. 30 hours	ca. 48 hours	ca. 6 days
	+20°C	ca. 16 hours	ca. 24 hours	ca. 4 days
	+30°C	ca. 12 hours	ca. 18 hours	ca. 3 days

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

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.

FURTHER INFORMATION

Substrate and preparation

Please refer to the Sika guide: "Sikafloor® Floors. Assess, prepare and prime surfaces."

Application instructions

Please refer to the instructions in the respective product data sheets.

Cleaning and maintenance

Please refer to the system data sheet: "Sikafloor® Floors. Cleaning and care instructions"

IMPORTANT CONSIDERATIONS

GENERAL

Before and during application until curing of liquid plastics, handling of silicone-containing materials or other reaction-disturbing products in the environment must be prevented.

Materials containing plasticizers, such as car tires, floor mats, rubber stoppers, etc., may cause discoloration of the coating due to plasticizer migration. The functionality of the coating is not affected by this optical change.

CARE INSTRUCTIONS

For a high, durable surface quality and preservation of the decorative appearance, the application of a care product and regular maintenance with suitable cleaning agents is recommended. Abrasive stresses can lead to scratching of the surface.

ECOLOGY, HEALTH AND SAFETY

HAZARD INFORMATION

GISCODE: PU 40

This code enables further information to be obtained from the BG Bau service pages (www.bgbau.de/gisbau), as well as assistance in drawing up operating instructions (www.wingis-online.de/wingisonline/).

Skin contact with polyurethanes can lead to allergies!

When handling polyurethanes, direct skin contact must be avoided at all costs! For the selection of suitable protective equipment, our information data sheets "General notes on occupational safety" (reference number 7510) and "General notes on the wearing of protective gloves" (reference number 7511) are available at www.sika.de.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

The maximum content of VOC (product category IIA/j type sb) allowed by EU Directive 2004/42 in the ready-to-use state is 140 g/l (Limit 2010). The maximum VOC content of Sikafloor®-304 W in ready-to-use condition is < 140 g/l VOC.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Dust and dirt must be removed from the surface before application.

Additional measures when coating epoxy resin substrates.

Sikafloor product	after ≤ 48h	after ≥ 48h
SR-266 CR, SR-721, SR-264 N	at ≤ 15°C: padding ¹⁾	padding ¹⁾
	at > 15°C: no measures necessary within the waiting period	
SR-390	at 10-30°C: padding ¹⁾	padding ¹⁾

¹⁾ e.g. with a Twister Extreme Red pad

MIXING

Stir component A mechanically before mixing. Carefully mix components A + B in the prescribed mixing ratio before application. To prevent splashing or even spilling of the liquid, mix the components briefly at low speed using an infinitely variable electric stirrer. Then increase the stirring speed to a maximum of 300 rpm for intensive mixing. The mixing time is at least 3 minutes and is not completed until a homogeneous mixture is obtained. To obtain a uniform surface, 5% water can be added to the material. After adding water, stir for 1 minute. Then wait 1 minute and stir again for 1 minute. Transfer (repot) mixed material into a clean container, and mix again briefly as described above.

APPLICATION

Application is carried out with a lint-free and solvent-resistant short-pile nylon or velour sealer roller.

To avoid multiple applications and wild overlaps, divide up work areas. Otherwise, an uneven surface appearance and streaking may occur. The application is carried out at the specified temperatures without direct sunlight and drafts.

For larger surfaces, it is recommended that at least 2 or better several persons carry out the application. One or more persons apply the material in one direc-

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tion and another person spreads the freshly applied sealing material in a crosswise direction (90° angle). The last step is to roll the material perpendicular to the application direction using a 50 cm roller. The material is rolled in one direction only and the roller is lifted at the end of a strip.

On larger areas, a 50 cm wide roller should be used for re-rolling. The spreading roller must be impregnated/wetted with material and used only for spreading and never for applying the sealant.

The work must be carried out in a coordinated rhythm, the crosstalk must not be done too late. On large areas, the cross walk shall be rolled standing on the fresh surface. For this purpose, wear blunt nail or soccer shoes. Always work fresh in fresh and pay attention to an even optimal distribution when spreading. Avoid puddling, as cloud formation is possible.

Spray application:

Sikafloor®-304 W can be applied by airless spraying.

Ensure sufficient ventilation during application and curing.

Important: When sealing epoxy resin and polyurethane coatings, a sufficiently long curing time must be allowed before applying the sealant. At room temperature, wait at least 18 maximum 48 hrs.

CLEANING OF EQUIPMENT

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

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.

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 recom-

mendations, 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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