

PRODUCT DATA SHEET

Sikafloor®-305 W

2-part PUR matt coloured seal coat part of the Sika Comfortfloor® flooring range

DESCRIPTION

Sikafloor®-305 W is a two part water based, low VOC, polyurethane, coloured matt seal coat.

USES

Sikafloor®-305 W may only be used by experienced professionals.

Matt seal coat for Sika ComfortFloor® flooring range, for smooth Sikafloor® polyurethanes and for the Sikafloor® Multidur epoxy range.

CHARACTERISTICS / ADVANTAGES

- Water based
- Very low odour
- Good UV and yellowing resistance
- Easy to clean

ENVIRONMENTAL INFORMATION

VOC Emission certificate according to AgBB und DIBt approval requirements (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology), Eurofins report No. 769855D

APPROVALS / STANDARDS

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 0208010400500000031041, certified by notified factory production control certification body 0620, and provided with the CE marking.
- Fire classification acc. to EN 13501-1, Test reports 08-198, 08-199 and CR-13- 167/1, Ghent University

PRODUCT INFORMATION

Chemical Base	PUR	
Packaging	Part A	8,5 kg containers
	Part B	1,5 kg containers
	Part A+B	10 kg ready to mix units
Shelf Life	Part A	6 months from date of production
	Part B	12 months from date of production
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 / Colour	Sikafloor®-305 W is matt after final curing. Available in various colour shades and as substrates for local tinting.	

Density	Part A	~1,33 kg/l	(DIN EN ISO 2811-1)
	Part B	~1,13 kg/l	
	Mixed resin	~1,18 kg/l	
All Density values at +23 °C			
Gloss level	Angle	Value	(ISO 2813)
	85°	< 50	
	60°	< 10	

TECHNICAL INFORMATION

Shore D Hardness	~84	(7 days / +23 °C)	(DIN 53 505)
Abrasion Resistance	<1000 mg	(H22/1000/1000)	(ISO 868)
Tensile Adhesion Strength	>1,5 N/mm ² (failure in concrete)		(EN 13892-8)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.		

SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of:		
	Sika Comfortfloor® PS-23	Seamless, smooth, unicolour, low voc, elastic polyurethane floor covering	
	Sika Comfortfloor® PS-27	Seamless, smooth, unicolour, low voc, tough elastic polyurethane floor covering	
	Sika Comfortfloor® PS-63	Seamless, smooth, unicolour, low voc, sound insulating elastic polyurethane floor covering	
	Sika Comfortfloor® PS-65	Seamless, smooth, unicolour, low voc, resilient polyurethane floor covering	
	Sikafloor® MultiFlex PS-32 UV	Smooth, unicolour, tough elastic polyurethane floor covering with sealer	

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 85 : 15 (by weight)
Consumption	~0,13–0,15 kg/m ² /layer This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. When used in high wear conditions, for example where rolling office chairs occur, a double layer Sikafloor®-305 W is highly advisable. A double layer is increasing the mechanical strength of the system and its resistance against office chairs particularly.
Ambient Air Temperature	+10 °C min. / +30 °C max.
Relative Air Humidity	75 % max. During curing the relative humidity should not exceed 75 %. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.
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	+10 °C min. / +30 °C max.

Pot Life

Temperature	Time
+10 °C	~80 minutes
+20 °C	~60 minutes
+30 °C	~30 minutes

Caution: End of potlife is not noticeable.

Curing Time

Before overcoating Sikafloor®-305 W allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 hours	4 days
+20 °C	16 hours	3 days
+30 °C	12 hours	2 days

Based on relative humidity of max. 70 % and good ventilation. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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

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.

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®-305 W must be protected from damp, condensation and water for at least 7 days (+20 °C).
- Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealers coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.
- When applying on an epoxy surface, the floor has to be sanded with preferably, a green 3M pad to secure a proper adhesion.
- 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.

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 wb) is 140 g/l (Limit 2010) for the ready to use product.

The maximum content of Sikafloor®-305 W is < 140 g/l VOC for the ready to use product.

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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 3 minutes until a uniform mix has been achieved. During the mixing of the Components A and B add 5–7 % of clean water. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. After mixing give the material a rest for 10 minutes. Over mixing must be avoided to minimise air entrainment.

Mixing Tools:

Sikafloor®-305 W 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. Uniformly spread Sikafloor®-305 W by using a short pile nylon roller. Sikafloor®-305 W can also be applied by using airless spray equipment. A seamless finish can be achieved if a “wet” edge is maintained during application.

CLEANING OF TOOLS

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

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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