BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-305 W

2-part polyurethane, water-based, matt, coloured seal coat

DESCRIPTION

Sikafloor®-305 W is a two part, water-based, low-VOC, polyurethane, coloured matt seal coat. It is part of the Sika ComfortFloor® flooring range.

USES

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

Sikafloor®-305 W is used as a seal coat for:
- Sika ComfortFloor® flooring range
- Sikafloor® MultiFlex polyurethane range
- Sikafloor® MultiDur epoxy range

CHARACTERISTICS / ADVANTAGES

- Water-based
- Low odour
- Good resistance to UV exposure
- Good yellowing resistance
- Easy to clean and low maintenance
- Sika® Purform® polyurethane technology

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- Determination of Fire Behaviour EN ISO 9239-1, Sikafloor®-305 W/-330/-Comfort Po
- Reaction to fire EN 13501-1, GHENT, Report No. CR 21-0998-01

PRODUCT INFORMATION

Chemical Base	Water-based polyurethane	
Packaging	Container Part A	8.5 kg
	Container Part B	1.5 kg
	Container Part A + Part B	10 kg
	Refer to the current price list for available packaging variations.	
Colour	Part A	Coloured
	Part B	Yellowish
	Cured colour	Available in a wide range of colours
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 in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	Mixed Product	1.18 kg/l	(EN ISO 2811-1)
	Part A	1.33 kg/l	
	Part B	1.16 kg/l	

Colour	Part A	Liquid
	Part B	Liquid
	Cured appearance	matt finish

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	84	(EN ISO 868)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)
Gloss level	85°	< 50	(EN ISO 2813)
	60°	< 10	

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	85 : 15
Consumption	0.13 kg/m² per layer (diluted with 10 % water)	
Product Temperature	Maximum	+30 °C
	Minimum	+10 °C
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative Air Humidity	Maximum	75 % r.h.
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation on the surface of the applied product.	
Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C
Pot Life	+10 °C	80 minutes
	+20 °C	60 minutes
	+25 °C	30 minutes

Curing Time

Substrate temperature	Minimum	Maximum
+10 °C	24 hours	6 days
+20 °C	16 hours	4 days
+30 °C	12 hours	3 days

Based on relative humidity of max. 70 % and good ventilation.
Note: 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, particularly temperature and relative humidity.

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

Refer to the following method statements:
- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement 8508410 Sikafloor® mixing and application

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Select the most appropriate equipment required for the project.
MIXING EQUIPMENT
- Electric single-paddle mixer (300 to 400 rpm)
- Clean mixing containers

APPLICATION EQUIPMENT
- Short-pile nylon roller
- Airless spray equipment

SUBSTRATE QUALITY

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².
Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

IMPORTANT
Insufficient adhesion during application on epoxy substrates due to surface tension
When applying the Product on an epoxy substrate, the floor must be sanded to secure proper adhesion.
1. Sand the substrate with a 3M Brown Stripper Pad in combination with low-speed automatic scrubbers or rotary floor machines (175 to 600 rpm).

IMPORTANT
Insufficient coating due to uneven or dirty substrates
Uneven or dirty substrates cannot be covered by thin seal coats.
1. Clean the substrate and adjacent areas thoroughly prior to application.
1. Vacuum the substrate to remove all dirt and contamination prior to application.

MIXING

1. Prior to mixing all parts, mix Part A (resin) using an electric single paddle mixer. Mix liquid and all the coloured pigment until a uniform colour and mix has been achieved.
2. Add Part B (hardener) to Part A.
3. IMPORTANT Avoid excessive mixing to minimise air entrainment. Mix Part A + B continuously for ~3 minutes while adding 5 % to 10 % water until a uniformly coloured mix is achieved. Note To achieve the smoothest surface dilute using the maximum amount of water.
4. Leave the Product to stand for 10 minutes before application.

APPLICATION

IMPORTANT
Strictly follow installation procedures
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
IMPORTANT
Protect from moisture
After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.
IMPORTANT
Damaged finish due to heating with fossil fuel heaters
Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.
1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

Exact colour matching
Note: For exact colour matching, ensure the Product in each area is applied from the same control batch number.
Preconditions
The substrate moisture content, relative humidity and dew point are appropriate for application. Note The floor must be divided into sections (at expansion joints or doorways when possible) that can be completed without stopping.

1. Apply the mixed Product in the corners, around columns and other installations by short pile roller. Note Maintain a "wet edge" during application to achieve a seamless finish.
2. Distribute the mixed Product at the correct consumption rate crosswise with a short pile nylon roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened 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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