

PRODUCT DATA SHEET

Sikafloor®-304 W

Water-based polyurethane matt seal coat

DESCRIPTION

Sikafloor®-304 W is a 2-part water-based, very-low-VOC, polyurethane matt seal coat. It is part of the Sika Comfortfloor® flooring range.

USES

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

The Product is used as a:

- Matt seal coat for Sikafloor® systems

Please note:

- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Water-based
- Good resistance to UV exposure
- Good yellowing resistance
- Low odour
- Low VOC emissions
- Low VOC content
- Low maintenance

PRODUCT INFORMATION

Chemical Base	Water-based polyurethane	
Packaging	Container Part A	6.0 kg
	Container Part B	1.5 kg
	Container Part A + Part B	7.5 kg
	Refer to the current price list for available packaging variations.	
Shelf Life	Part A	6 months from date of production
	Part B	12 months from date of production

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

APPROVALS / STANDARDS

- 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
- 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

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 packaging.

Refer to the current Safety Data Sheet for information on safe handling and storage.

Appearance / Colour	Part A	white, liquid	
	Part B	yellowish, liquid	
	Cured appearance	matt finish	
	Cured colour	Transparent	
Density	Part A	1.05 kg/l	(EN ISO 2811-1)
	Part B	1.13 kg/l	
	Mixed Product	1.07 kg/l (diluted with 5 % Water)	

TECHNICAL INFORMATION

Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)		(EN 1542)
Gloss level	85°	< 55	(EN ISO 2813)
	60°	< 10	

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	80 : 20
Consumption	0.13 kg/m ² 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
Substrate Moisture Content	Refer to the individual primer Product Data Sheet.	
Pot Life	+10 °C	50 minutes
	+20 °C and 50 % r.h.	30 minutes
	+25 °C	20 minutes

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 — Sikafloor® and Sikagard® evaluation and preparation of surfaces
- Sika Method Statement — 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

REGULATION (EC) NO 1907/2006 - REACH

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

Application on epoxy substrates

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 until a uniform 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 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.

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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.

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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