

# 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.

Sikafloor®-304 W 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

<b>Chemical Base</b>	Water-based polyurethane	
<b>Packaging</b>	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.	
<b>Shelf Life</b>	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 the packaging.  
Refer to the current Safety Data Sheet for information on safe handling and storage.

<b>Colour</b>	Cured colour	Transparent
<b>Colour</b>	Cured appearance	matt finish
<b>Density</b>	Mixed Product	1.07 kg/l (diluted with 5 % Water) (EN ISO 2811-1)
	Part A	1.05 kg/l
	Part B	1.13 kg/l

**TECHNICAL INFORMATION**

<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)	(EN 1542)
<b>Gloss level</b>	85°	< 55 (EN ISO 2813)
	60°	< 10
<b>Chemical Resistance</b>	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.	

**APPLICATION INFORMATION**

<b>Mixing Ratio</b>	Part A : Part B (by weight)	80 : 20
<b>Consumption</b>	0.13 kg/m <sup>2</sup> per layer (diluted with 10 % water)	
<b>Product Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Ambient Air Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Relative Air Humidity</b>	Maximum	75 % r.h.
<b>Dew Point</b>	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.	
<b>Substrate Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Substrate Moisture Content</b>	Refer to the individual primer Product Data Sheet.	
<b>Pot Life</b>	+10 °C	50 minutes
	+20 °C and 50 % r.h.	30 minutes
	+25 °C	20 minutes
<b>Waiting Time / Overcoating</b>	Before overcoating the Product, allow:	
	<b>Temperature</b>	<b>Minimum</b> <b>Maximum</b>
	+10 °C	26 hours      4 days
	+20 °C	16 hours      3 days
	+30 °C	12 hours      2 days
	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 — 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/mm<sup>2</sup>) with a minimum tensile strength of 1.5 N/mm<sup>2</sup>.

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.

#### 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.

### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: marketing@hk.sika.com  
Website: www.sika.com.hk



### Product Data Sheet

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