

# PRODUCT DATA SHEET

## Sikafloor®-304 W

2-PART PUR MATT SEAL COAT PART OF THE SIKA COMFORTFLOOR® FLOORING RANGE

### PRODUCT DESCRIPTION

Sikafloor®-304 W is a two part water based, very low VOC, polyurethane, matt seal coat.

### USES

Sikafloor®-304 W installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Matt seal coat for Sika ComfortFloor® flooring range

### CHARACTERISTICS / ADVANTAGES

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

### ENVIRONMENTAL INFORMATION

#### LEED Rating:

- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
- 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. 770027B

### APPROVALS / STANDARDS

- Coating for concrete protection according to the requirements of EN 1504-2:2004 and the EN 13813:2002, DoP 02 08 01 04 005 0 000002 1041 certified by Factory Production Control Body, 0620 and provided with the CE-mark.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 0801 04 005 0 000002 1041, certified by notified factory production control certification body 0620, and provided with the CE marking.
- Fire classification acc. to EN 13501-1 Report No. KB-Hoch-090971, Test institute Hoch, Germany.
- Biological resistance certificate Sikafloor-304W CSM Statement of Qualification - ISO 846, very good - Report No. SI 1108-533 Fraunhofer IPA, Germany

### PRODUCT INFORMATION

<b>Chemical Base</b>	PUR	
<b>Packaging</b>	Part A	6.0 kg containers
	Part B	1.5 kg containers
	Part A+B	7.5 kg ready to mix units

<b>Appearance / Colour</b>	Resin - part A	white, liquid	
	Hardener - part B	yellowish, liquid	
Sikafloor®-304W is silky-matt after final curing.			
<b>Shelf Life</b>	Part A	6 months from date of production	
	Part B	12 months from date of production	
<b>Storage Conditions</b>	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.		
<b>Density</b>	Part A	~ 1.05 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.13 kg/l	
	Mixed resin	~ 1.07 kg/l (diluted with 5 % Water)	
	All Density values at +23°C		

## TECHNICAL INFORMATION

<b>Chemical Resistance</b>	Resistant to many chemicals. Please ask for a detailed chemical resistance table.		
<b>Gloss Level</b>	<b>Angle</b>	<b>Value</b>	(ISO 2813)
	85°	< 55	
	60°	< 10	

## SYSTEM INFORMATION

<b>Systems</b>	Please refer to the System Data Sheet of:	
	<b>Sika Comfortfloor® PS-24</b>	Seamless, smooth, low voc, elastic, polyurethane floor covering with optional colour flakes
	<b>Sika Comfortfloor® PS-64</b>	Seamless, smooth, low voc, sound insulating elastic polyurethane floor covering with optional colour flakes
	<b>Sika Comfortfloor® PS-66</b>	Seamless, smooth, low voc, resilient polyurethane floor covering with optional colour flakes

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : part B = 80 : 20 (by weight)	
<b>Consumption</b>	Please refer to the System Data Sheet	
<b>Ambient Air Temperature</b>	+10°C min. / +30°C max.	
<b>Relative Air Humidity</b>	75% max.	
	During curing the humidity should not exceed 75 % max. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.	
<b>Dew Point</b>	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.	
<b>Substrate Temperature</b>	+10°C min. / +30°C max.	
<b>Pot Life</b>	<b>Temperatures</b>	<b>Time</b>
	+10°C	~ 50 minutes
	+20°C	~ 30 minutes
	+30°C	~ 20 minutes
Caution: End of potlife is not noticeable.		

## Curing Time

Before overcoating Sikafloor®-304 W

Substrate temperature	Minimum	Maximum
+10°C	26 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

## 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/mm<sup>2</sup>. 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. 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®-304 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®-304 W by using a short pile nylon roller. Sikafloor®-304 W can also be applied by using a 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.

## FURTHER DOCUMENTS

#### ▪ Substrate quality & Preparation

Please refer to Sika Information Manual: "EVALUATION AND PREPARATION OF SURFACES FOR FLOOR-

ING SYSTEMS".

#### ▪ Application instructions

Please refer to Sika Information Manual: "MIXING & APPLICATION OF FLOORING SYSTEMS".

#### ▪ Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

## LIMITATIONS

- Freshly applied Sikafloor®-304 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.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## 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.

## ECOLOGY, HEALTH AND SAFETY

### 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®-304 W is < 140 g/l

VOC for the ready to use product.

## 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.

### SIKA IRELAND LIMITED

Ballymun Industrial Estate  
Ballymun  
Dublin 11, Ireland  
Tel: +353 1 862 0709  
Web: [www.sika.ie](http://www.sika.ie)  
Twitter: @Sikalreland



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