

# PRODUCT DATA SHEET

## Sikafloor®-316

Clear polyurea seal coat for rigid floors

### PRODUCT DESCRIPTION

Sikafloor®-316 is a 2-part polyurea, very-low-VOC, glossy clear seal coat.

### USES

Sikafloor®-316 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikafloor®-316 is used for sealing the following substrates and materials:

- Sikafloor® epoxy flooring
- Sikafloor® tough-elastic polyurethane flooring

### CHARACTERISTICS / ADVANTAGES

- Low odour
- Good resistance to UV exposure
- UV inhibitor
- Easy to clean and maintain
- Very good abrasion resistance
- Good resistance to specific chemicals

### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyurea	
<b>Packaging</b>	Container Part A	0.55 kg
	Container Part B	4.45 kg
	Container Part A + Part B	5.0 kg ready to mix units
	Refer to the current price list for available packaging variations.	
<b>Shelf Life</b>	12 months from date of production	
<b>Storage Conditions</b>	<p>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.</p> <p>Refer to the current Safety Data Sheet for information on safe handling and storage.</p>	

<b>Appearance / Colour</b>	Part A	Clear liquid	
	Part B	Clear liquid	
	Part A+B	Clear liquid	
<b>Density</b>	Part A	1.03 kg/l	(EN ISO 2811-1)
	Part B	1.16 kg/l	
	Mixed Product	1.14 kg/l	

## TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)	(EN 1542)
<b>Chemical Resistance</b>	Resistant to many chemicals. Contact Sika technical service for specific information.	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B (by weight)	11 : 89		
<b>Consumption</b>	On smooth surfaces	0.07–0.10 kg/m <sup>2</sup> per layer		
	On lightly broadcasted or flaked surfaces	0.10–0.12 kg/m <sup>2</sup> per layer		
<b>Product Temperature</b>	Maximum	+30 °C		
	Minimum	+15 °C		
<b>Ambient Air Temperature</b>	Maximum	+30 °C		
	Minimum	+15 °C		
<b>Relative Air Humidity</b>	Maximum	80 % r.h.		
	Minimum	30 % 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	+15 °C		
<b>Pot Life</b>	+15 °C	80 minutes		
	+20 °C	60 minutes		
	+30 °C	30 minutes		
<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+15 °C	18 hours	42 hours	10 days
	+20 °C	16 hours	36 hours	7 days
	+30 °C	12 hours	24 hours	5 days
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.				

## 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.

## 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### MIXING EQUIPMENT

- Electric double-paddle mixer (> 700 W, 300 to 400 rpm)

#### SUBSTRATE QUALITY

The surface must be clean, dry and free of contaminants such as dirt, oil, grease, coatings and surface treatments. All dust, loose and friable material must be removed from all surfaces using 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

1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniform mix is achieved.
4. Gradually add either Sikafloor® Antislip Agent or glass beads to the mix.  
Note: Refer to the aggregate addition table for the amount to add.
5. **IMPORTANT** Do not mix excessively. Mix for a further 2 minutes until a uniform mix is achieved.
6. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
7. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

#### AGGREGATE ADDITION

Add the following amount of aggregate to the mixed Part A + B.

<u>Aggregate</u>	<u>Addition</u>
Glass beads (90–150 µm or 200–300 µm)	3 % to 10 % by weight
Sikafloor® Antislip Agent	2 % to 4 % by weight

### 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 7 days.

#### 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.

#### 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.

#### SEAL COAT

1. Pour the mixed Product onto the surface.

Note: The consumption is specified in Application Information.

2. Apply the Product evenly over the surface with a micro fibre roller with a fibre length of ~10 mm.
3. Back roll the surface in two directions at right angles with a micro fibre roller.

Note: Maintain a "wet edge" during application for a seamless finish.

#### MULTI-COAT APPLICATION

The Product is typically applied as a single finish coat. When a multi-coat application is required, the surface must be prepared before the application of the subsequent coat.

1. Roughen the surface by abrading using abrasive manual tools or mechanical equipment.
2. Remove dust by industrial vacuuming equipment.
3. **IMPORTANT** The prepared surface must be gloss free and uniformly dull in appearance. Solvent wipe the surface to remove all traces of dust and allow the solvent to evaporate.

### CLEANING OF TOOLS

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

## 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.

## 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.

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### Product Data Sheet

Sikafloor®-316  
August 2024, Version 05.01  
020812040030000010

Sikafloor-316-en-IE-(08-2024)-5-1.pdf

