

# PRODUCT DATA SHEET

## Sikafloor®-101 PS

### EPOXY RESIN PORE SEALING AND SMOOTHING PUTTY FOR HORIZONTAL SURFACES

#### DESCRIPTION

Sikafloor®-101 PS is a two component, epoxy resin based putty for minor repairs on concrete horizontal surfaces.  
Suitable for use in hot and tropical climatic conditions.

#### USES

Sikafloor®-101 PS may only be used by experienced professionals.

Sikafloor®-101 PS can be used in following situations:

- Concrete minor repairs such as, blow holes, pin holes, etc.
- General smoothing / re-profiling over large horizontal areas
- Filling pinholes and surface sealing prior to overcoating with Sikafloor® and Sikagard® product range
- Filling of non structural cracks, holes and voids

#### CHARACTERISTICS / ADVANTAGES

Sikafloor®-101 PS is an extremely versatile product that offers many advantages to the user:

- Easy to apply
- Suitable for dry and damp surfaces
- Cost effective; consumption of subsequent coatings is reduced
- Non-shrink
- Very good mechanical strengths
- Excellent adhesion to concrete substrates
- No primer required
- Impermeable to liquids and water vapour
- Good abrasion and impact resistance
- Good chemical resistance

#### PRODUCT INFORMATION

<b>Composition</b>	Epoxy resin and special fillers
<b>Packaging</b>	Part A: 4 kg container Part B: 2 kg container (A + B) 6 kg ready to mix units
<b>Shelf life</b>	24 months from date of production
<b>Storage conditions</b>	Store in original, unopened, sealed and undamaged packaging in dry condition at temperatures between +5 °C and +30 °C. Protect from direct sunlight and moisture.
<b>Appearance and colour</b>	Light Grey / Gainsboro (Mixed A + B) Component A: White Component B: Grey
<b>Density</b>	~1.83 kg/l (mixed resin at +23 °C)
<b>Solid content by mass</b>	~ 100% Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)

## TECHNICAL INFORMATION

Compressive strength	+25 °C	<b>1 Day</b>	<b>7 Days</b>	(ASTM C579)
		≥ 25 N/mm <sup>2</sup>	≥ 45 N/mm <sup>2</sup>	
Tensile adhesion strength	> 3.0 N/mm <sup>2</sup> (or concrete failure)			(ASTM D4541)

## APPLICATION INFORMATION

Mixing ratio	Component A : Comp. B = 2 : 1 (by weight and volume)
Consumption	~1.90 kg / m <sup>2</sup> / mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.
Layer thickness	Maximum 3 mm in one single layer
Ambient air temperature	+5 °C min. / +45 °C max.
Dew point	Beware of condensation! Substrate temperature during application must be at least 3 °C above dew point.
Substrate temperature	+5 °C min. / +45 °C max.
Pot Life	~45 min. (+25 °C) *200 g The potlife begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife. To obtain longer workability at high temperatures, the mixed adhesive may be divided into portions. Another method is to chill components A and B before mixing them (not below +5 °C).
Curing time	Sikafloor®-101 PS can be over coated with various Sikafloor®, Sikadur® and Sikagard® resins after 12 hours and not later than 24 hours at +30 °C. Sikafloor®-101 PS is fully cured after 7-14 days, depending of ambient temperature.

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

- When applying to damp concrete (no standing/running water!), work it well into substrate.
- Do not apply on bitumen or asphalt.
- Avoid adding any solvent, water, fillers or any other ingredients
- Do not apply on polyethylene, polypropylene, or PT-FE.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- The substrate must be clean and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc..
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

## MIXING

Mix components (A and B) together for at least 3 minutes with a mixing paddle attached to a slow speed electric drill (maximum 400 rpm) until the material becomes smooth in consistency and an even in colour of the mixture is obtained. Avoid aeration while mixing.

## APPLICATION

Sikafloor®-101 PS has very easy workability and can be applied by trowel, scraper, or spatula. Ensure that the epoxy paste is forced well into the repair surface, filling all of the voids. Once the repair has been completed the surface can be finished with a steel float or trowel to achieve the desired effect. For corner repairs, it may be necessary to install formwork to one side of the void for easier application, due to lower viscosity of the product.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be removed by mechanical means.

## 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 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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ISO 9001: Sika UAE LLC,  
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Sika International Chemicals LLC  
ISO 14001: Sika UAE LLC,  
Sika Gulf B.S.C. (C),  
Sika Saudi Arabia Limited,  
Sika International Chemicals LLC,  
ISO 45001: Sika UAE LLC,  
Sika Gulf B.S.C. (C),  
Sika International Chemicals LLC.

All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards: ISO 9001,  
ISO 14001 and ISO 45001.

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