

# PRODUCT DATA SHEET

## Sikafloor®-701

2-component, benzyl alcohol-free epoxy resin binder

### DESCRIPTION

Sikafloor®-701 is a colourless, low-viscosity, 2-component, benzyl alcohol-free component, benzyl alcohol-free epoxy resin binder for priming, levelling and mortar production

Total solid according to test method DEUTSCHE BAUCHEMIE

### USES

Sikafloor®-701 may only be used by experienced professionals.

- As a primer for concrete substrates, cementitious mortars and epoxy resin-bound mortars
- For normal to highly absorbent surfaces
- Primer for Sikafloor® floor coatings
- As a liquid-applied waterproofing for walls and floors

### FEATURES

- Bisphenol A and Benzyl alcohol free
- Nearly VOC-free
- Low viscosity
- Easy application
- Good penetration behaviour
- Good adhesive bond
- Tested as a sealant

### CERTIFICATES AND TEST REPORTS

- Paint compatibility test according to PV 3.10.7 standard
- Bond behaviour when exposed to moisture on the rear side in accordance with DIN EN 13578
- ETA as waterproofing in conjunction with Sika® Reemat Premium of wet rooms according to ETAG 022-01
- Approved by the building authorities in:
  - Sikafloor® Water Protection System 390 N
  - Sikafloor® Water Protection System 390 ECF

### PRODUCT INFORMATION

<b>Composition</b>	Epoxid		
<b>Packaging</b>	Component A	7.5 kg	18.75 kg
	Component B	2.5 kg	6.25 kg
	Component A+B	10 kg	25 kg
<b>Appearance and colour</b>	Component A	transparent liquid	
	Component B	brown liquid	
<b>Shelf life</b>	24 months from the day of production		
<b>Storage conditions</b>	Store in original sealed containers at a temperature of + 5°C to 25°C.		
<b>Density</b>	Component A	ca. 1.10 kg/l	(DIN EN ISO 2811-1)
	Component. B	ca. 1.01 kg/l	
	Mixture	ca. 1.08 kg/l	

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All values were determined at +23 °C.

<b>Solid content by mass</b>	~100 %
<b>Solid content by volume</b>	~100 %

## TECHNICAL INFORMATION

<b>Compressive strength</b>	ca. 76 N/mm <sup>2</sup> (tested as a mortar, 23 °C / 50 % r. h.)	(EN 13892-2)
<b>Tensile adhesion strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)	(ISO 4624)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Component A : Component B = 75 : 25 (by weight)		
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Consumption	Layer	Product	Consumption
	Primer	1–2 × Sikafloor®-701	1–2 × 0.3–0.5 kg/m <sup>2</sup>
	1st membrane layer (waterproofing)	Sikafloor®-701	0.7 kg/m <sup>2</sup>
	Glass fibre reinforcement (waterproofing)	Sika® Reemat Premium	0.225 kg/m <sup>2</sup>
	2nd membrane layer (waterproofing)	Sikafloor®-701	0.3 kg/m <sup>2</sup>
	Levelling (roughness depth < 1 mm)	1 part by weight Sikafloor®-701 + 0.5 parts by weight Quartz sand (0,1–0,3 mm) + 0.015 parts by weight Sika® Extender T	1.4 kg/m <sup>2</sup> /mm
	Egalisierung (Rautiefe bis zu 2 mm)	1 part by weight Sikafloor®-701 + 1 part by weight Quartz sand (0.1–0.3 mm) + 0.015 parts by weight Sika® Extender T	1.4 kg/m <sup>2</sup> /mm
	Bonding bridge	1–2 × Sikafloor®-701	1–2 × 0.3–0.5 kg/m <sup>2</sup>
	Repair mortar, screed (layer thickness 15-20 mm)	1 part by weight Sikafloor®-701 + 10 parts by weight Quartz sand	2.2 kg/m <sup>2</sup> /mm

These are theoretical values and do not include any additions for surface porosity, surface roughness, level differences and residual material in the container etc. .

<b>Ambient air temperature</b>	+10 °C min. / +30 °C max.
<b>Relative air humidity</b>	80 % r. h. max.
<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 or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.
<b>Substrate temperature</b>	+10 °C min. / +30 °C max.

**Substrate moisture content**

<b>≤ 0,3 CM %</b>	<b>≤ 4 CM %</b>	<b>&gt; 4 bis ≤ 5 CM %</b>	<b>&gt; 5 bis 6 CM %</b>
Anhydrite screeds	no further Specifications for cementitious substrates	Concrete quality min.: C25/30 cement screed quality better CT - C25 e.g. CemFlow cement flow screed. Non-porous application of min. 0.5 kg/m <sup>2</sup> . No sanding of the resin layer	Concrete quality min.: C 25/30. cement screed quality min. CT - C25 e.g. CemFlow cement flow screed use the drying method to determine the exact residual moisture. Pore-free application of at least 0.5 kg/m <sup>2</sup> . No sanding of the resin layer. Obtain object approval from Sika.

**Pot Life**

<b>Temperature</b>	<b>Time</b>
+10 °C	ca. 60 minutes
+20 °C	ca. 30 minutes
+30 °C	ca. 15 minutes

**Curing time**

Waiting time before application of solvent-free products on Sikafloor®-701:

<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+10 °C	60 hours	4 days
+20 °C	24 hours	2 days
+30 °C	16 hours	24 hours

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

**SYSTEM INFORMATION****System**

<b>Primer:</b>	
Low / medium concrete porosity	1–2 × Sikafloor®-701
<b>Waterproofing according to ETAG 022-1</b>	
Primer	1 × Sikafloor®-701
1st membrane layer	1 × Sikafloor®-701
Glass fibre reinforcement	Sika© Reemat Premium
2nd membrane layer	1 × Sikafloor®-701
<b>Fine levelling filler (&lt; 1 mm):</b>	
Primer	1 × Sikafloor®-701
Levelling	1 × Sikafloor®-701 + quartz sand (0,1–0,3 mm) + Sika® Extender T
<b>Levelling filler (up to 2 mm):</b>	
Primer	1 × Sikafloor®-701
Levelling	1 × Sikafloor®-701 + quartz sand (0,1–0,3 mm) + Sika® Extender T

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### Repair mortar, screed (layer thickness 15-20 mm)

Primer	1 × Sikafloor®-701
Bonding bridge	1 × Sikafloor®-701
Screed	1 × Sikafloor®-701 + suitable sand mixture

In practice, the following sand mixture has proven itself for layer thicknesses of 15 - 20 mm:

25 parts by weight quartz sand 0,1–0,3 mm

25 parts by weight quartz sand 0,3–0,8 mm

25 parts by weight quartz sand 0,7–1,2 mm

25 parts by weight quartz sand 2–4 mm

Important: The largest grain size should be a maximum of 1/3 of the finished layer thickness. The appropriate mixture should be selected based on the grain size and processing 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.

## FURTHER DOCUMENTATION

- System data sheet "Evaluation and preparation of surfaces for flooring systems"

## IMPORTANT CONSIDERATIONS

- Freshly applied Sikafloor®-701 must be protected from vapour, condensation and water for at least 24 hours.
- Sikafloor®-701 is not suitable for contact with water unless sealed with seal coat.
- For screeds, create a sample area to determine the suitable mixture and the correct grain size of the aggregate.
- Apply at falling temperatures to avoid pores. Pores (so-called 'pinholes') can be removed after light sanding, e.g. with a scratch levelling consisting of Sikafloor®-701 and approx. 3 % Sika® Extender T
- The improper assessment and treatment of cracks can lead to a reduced service life.
- With simultaneous exposure to high temperature and high point load, indentations can occur in screeds.  
If an enclosure needs to be heated, we recommend the use of electric heaters. Combustion heaters lead to the development of
- water vapour and carbon dioxide, which can impair the coating.

## 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 con-

tains physical, ecological, toxicological and other safety-related data.

## HAZARD WARNINGS

### GISCODE: RE 30 (in the past RE 1)

This coding enables further information to be obtained from the BG Bau service pages ([www.bgbau.de/gisbau](http://www.bgbau.de/gisbau)), as well as assistance in creating operating instructions ([www.wingis-online.de/wingisonline/](http://www.wingis-online.de/wingisonline/)).

Skin contact with epoxy resins can lead to allergies! When handling epoxy resins, direct skin contact must be avoided at all costs! To help you select suitable protective equipment, please refer to our information sheets 'General information on work safety' (reference number 7510) and 'General information on wearing protective gloves' (reference number 7511) at [www.sika.de](http://www.sika.de). In this context, we also recommend the BG Bau service pages for handling epoxy resins ([www.bgbau.de/gisbau/fachthemen/epoxi](http://www.bgbau.de/gisbau/fachthemen/epoxi)).

## DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

The maximum VOC content permitted in EU Directive 2004/42 (product category IIA/j type sb) is 500 g/l when ready for use (limit 2010). The maximum content of Sikafloor®-701 in ready-to-use condition is < 500 g/l VOC.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Cementitious substrates (concrete / screed) 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 all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- On critical substrates, such as highly absorbent cementitious substrates, the application of a test surface is recommended to ensure a non-

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porous surface after priming.

- Insufficiently stable layers and soiling must be removed. Pores and other surface defects must be exposed.
- Substrate repairs such as filling pores or reprofiling can be carried out with appropriate Sikafloor®, Sikadur® and Sikagard® products.
- Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.

## MIXING

Mix component A briefly. Then add component B to component A and mix for 2 minutes until a homogeneous homogeneous mass is obtained. Depending on the system, add filler and mix again for 2 minutes. Repeat and mix again briefly. Avoid stirring in air by mixing for too long.

Electric singel and double paddle mixers (300 - 400 rpm) are recommended as mixing tools.

## APPLICATION

Check the moisture content, relative humidity and dew point before application.

### Primer

Ensure that a non-porous layer covers the substrate. If necessary, apply two coats. Apply Sikafloor®-701 with a roller, squeegee or brush. Re-rolling after some time if necessary.

### Waterproofing According to ETAG 022-01

Apply Sikafloor®-701 to the hardened primer. Embed Sika® Reemat Premium and press down with a roller. Spread Sikafloor®-701 on the glass fabric with the roller.

### Levelling

Rough surfaces must first be levelled. The levelling mortar is applied with a squeegee or trowel in the desired layer thickness.

### Bonding bridge

Sikafloor®-701 is applied with a brush, roller or squeegee.

### Screed / repair mortar

Apply the mortar to the still tacky bonding bridge. Use levelling bars if necessary. After a short waiting time, smooth and compact the mortar using a trowel.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika®

Thinner C immediately after use. Hardened 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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