

## PRODUCT DATA SHEET

# Sikafloor® P 622

(formerly MTop P 622)

Two-part, solvent-free, general purpose epoxy based primer for use on cementitious screeds and concrete also with damp surface

### DESCRIPTION

Sikafloor® P 622 is a two-part, solvent-free (total solid), low viscosity epoxy resin based primer for concrete and cementitious screeds.

### USES

Sikafloor® P 622 is designed for use indoor and outdoor as a primer on mineral substrates such as concrete and cementitious screed. It can be used as scratch primer by adding oven dried silica sand in a proportion of 1 : 0,5 till 1 : 2. Sikafloor® P 622 can be applied on damp concrete and high residual moisture content cementitious screeds according to EN 13578. Therefore, Sikafloor® P 622 is also suitable on surfaces in contact with the ground if a dampproof course has been properly installed and is intact.

### CHARACTERISTICS / ADVANTAGES

- low viscosity
- easy to apply
- excellent penetration
- seals pores and capillaries
- excellent bond to substrate and damp concrete
- low emission
- certified radon-tightness

### PRODUCT INFORMATION

#### Packaging

Sikafloor® P 622 is supplied in 25 kg working packs (17,1 kg for part A + 7,9 kg for part B) and in drums of 200 kg for part A and of 184 kg for part B.

#### Shelf Life

Under the specified storage conditions the material has a shelf life of 24 months. For maximum shelf life under these conditions, see "Best before" label.

### ENVIRONMENTAL INFORMATION

Sikafloor® P 622 is registered in the DGNB (German Sustainable Building Council) Navigator platform and exhibits a DGNB Navigator label. The DGNB Navigator Label provides all the required information about our flooring products (product profiles) to build DGNB certified projects.

### APPROVALS / STANDARDS

A2017-073: Compatibility on wet concrete according to EN 13578:2003

Certified radon tightness. Test according to technical specification ISO TS 11665-13, 2017.

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

<b>Storage Conditions</b>	Store in original containers, under dry conditions and a temperature between 15–25°C. Do not expose to direct sun-light.		
<b>Appearance / Colour</b>	Transparent liquid		
<b>Density</b>	Part A at 20°C	1,15 g/cm <sup>3</sup>	(EN ISO 2811-1)
	Part B at 20°C	1,03 g/cm <sup>3</sup>	
	Mixed product at 20°C	1,07 g/cm <sup>3</sup>	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	Cured 7 days at +23°C	83	(EN ISO 868)
<b>Compressive Strength</b>	Cured 28 days at +23°C	81 N/mm <sup>2</sup>	(EN 12190)
<b>Tensile Strength</b>	Cured 7 days at +23°C	32 N/mm <sup>2</sup>	(EN 1542)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	100 : 46		
<b>Consumption</b>	<p>The consumption of Sikafloor® P 622 is between 0.3 – 0.5 kg/m<sup>2</sup> depending on the condition and porosity of the substrate. A second coat of 0.2 – 0.4 kg/m<sup>2</sup> of Sikafloor® P 622 is recommended for very porous substrates and improves the protection against rising damp.</p> <p>Oven dried silica sand 0.3 – 0.8 mm should be broadcast at approximately 1.0 kg/m<sup>2</sup> not in excess into the still wet primer.</p> <p>The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates.</p>		
<b>Ambient Air Temperature</b>	Min.	8°C	
	Max.	30°C	
<b>Relative Air Humidity</b>	Max. at 10°C	75	
	Max. at > 23°C	85	
<b>Substrate Temperature</b>	Min.	8°C	
	Max.	30°C	
<b>Pot Life</b>	At 12°C	60 min.	
	At 23°C	30 min.	
	At 30°C	15 min.	
<b>Waiting Time / Overcoating</b>	Temperature	Minimum	Maximum
	at 10°C	24 h	48 h
	at 23°C	12 h	36 h
	at 30°C	8 h	24 h
<b>Applied Product Ready for Use</b>	at 10°C	5 d	
	at 23°C	3 d	
	at 30°C	2 d	

## 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.

## 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

### SUBSTRATE PREPARATION

All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean floors of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants. Mechanical surface profiling by grit or shot blasting, high-pressure water jetting, grinding or scabbling (including the necessary post-treatment) are the preferred floor preparation methods.

After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm<sup>2</sup> (check with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate must not exceed 4% (check with e.g. CM device). The surface of the substrate can be damp but visible dry before the application. Do not apply the product when there is standing water on the surface. A dampproof course must have been properly installed and be intact.

### MIXING

Sikafloor® P 622 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre-condition both A and B components to a temperature of approximately 15 to 25°C. Pour the entire contents of part B into the container of part A. **DO NOT MIX BY HAND.** Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. **DO NOT WORK OUT OF THE ORIGINAL CONTAINER.**

## APPLICATION

After proper mixing to a homogeneous consistency pour the mixed Parts A and B into a fresh container and mix for another minute.

Sikafloor® P 622 should be applied when the ambient temperature is constant or falling as this will decrease the risk of bubble formation due to expansion of air that is enclosed in the concrete. After mixing, Sikafloor® P 622 is applied to the prepared substrate by spreading with a squeegee and finishing with a roller. Oven dried sand is broadcast into the still wet primer in order to improve adhesion of the following coat. The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum.

After application, the material should be protected from direct contact with water for approx. 24h (at 20°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. The temperature of the substrate must be at least 3K above the dew point both during the application and for at least 24 hours after the application (at 15°C).

### CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C 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.

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