BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® P 687 WAS

(formerly MTop P 687WAS)

Two-part, water-based epoxy conductive primer

DESCRIPTION

Sikafloor® P 687 WAS is two-part, water-based, solvent-free, low viscosity, black pigmented conductive primer based on a liquid epoxy resin.

USES

Sikafloor® P 687 WAS is used indoors as a conductive layer on primed mineral substrates such as concrete and cement screeds.
It is used in flooring systems applications where electroconductive properties are required.

CHARACTERISTICS / ADVANTAGES

- A low viscosity
- Easy to apply
- Electroconductive properties
- Always apply an anti-static floor coating system on top

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Packaging	Sikafloor® P 687 WAS is supplied in 15 kg working packs.	
Shelf life	Under the specified storage conditions the material has a shelf life of 12 months. For maximum shelf life under these conditions, see “best before“ label.	
Storage conditions	Store in original containers under dry conditions at a temperature between 15-25°C. Do not expose to direct sunlight and prevent the temperature from falling below the abovementioned range (freezing).	
Colour	Black	
Density	Part A at 23°C	1,09 g/cm³
	Part B at 23°C	1,06 g/cm³
	Mixed product at 23°C	1,07 g/cm³
Solid content by volume	35%	

APPLICATION INFORMATION

Mixing ratio	2 : 3
Consumption	120 - 150 g/m²

Ambient air temperature	Min.	10°C	
	Max.	30°C	
Relative air humidity	Max.	75%	
Substrate temperature	Min.	10°C	
	Max.	30°C	
Pot life	At 20°C / 60% r.h.	60 min.	
Curing time	At 20°C	5 d	
Waiting time / Overcoating	Temperature	Minimum	Maximum
	at 10°C	18 h	48 h
	at 20°C	12 h	36 h
	at 30°C	8 h	24 h

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

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 PREPARATION

Sikafloor® P 687 WAS must be applied to primed substrates. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pre-treatment is only necessary when the re-coating interval of the conductive layer has been exceeded. If necessary, the conductive layer must be renewed.
After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester i.e. "Herion" 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 temperature of the substrate must be at least 3K above the current dew point temperature. A damp-proof cause must have been properly installed and intact.

MIXING

Sikafloor® P 687 WAS is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C.
Pour the entire contents of part A into the container of part B. 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.
After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

APPLICATION

After mixing, Sikafloor® P 687 WAS is applied to the pre-treated substrate by paint-roller or a brush. On horizontal surfaces, the material is distributed with a rubber squeegee and finished with a paint roller. Sikafloor® P 687 WAS should not be diluted.
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. Sikafloor® P 687 WAS shows no clear end of pot-life symptoms. Therefore, please ensure that the mixed material is used up within 1 hour (at 20°C).
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. Carbamate has a marked effect on the conductivity of the coating and has to be removed.

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

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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