BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-1700

(formerly MTop 1700)

Two part, water based, water vapour permeable epoxy flooring coating for concrete floors and screeds

PRODUCT DESCRIPTION

Sikafloor®-1700 is a two part, solvent-free, water-based, epoxy flooring coatings with good water vapour permeability.

USES

Sikafloor®-1700 is designed to be used indoors for applications in decorative and industrial areas. Sikafloor®-1700 can be used as primer, body coat and/or top coat in flooring systems.

CHARACTERISTICS / ADVANTAGES

- water-based, environmentally friendly
- permeable to water vapour
- non flammable
- easy to apply
- adhesion to damp concrete and green concrete
- cures at low temperature (+5°C)
- resistant to dilute acids and alkalis, oils and fuels
- easy to clean and maintain

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®-1700 is supplied in 18.1 kg working packs.	
Shelf Life	Under the specified storage conditions the material has a shelf life of 12 months. For maximum shelf life un-der these conditions, see "Best before" label.	
Storage Conditions	Store in original containers, under dry conditions and a temperature between 15–25 °C. Do not expose to direct sunlight. Protect from frost.	
Colour	Sikafloor®-1700 is available in the following range of colours: caRAL 7001, 7032, 7035, 7037, 7038 and 7040.	
Density	Part A at 20°C	1,10 g/cm³
	Part B at 20°C	1,10 g/cm³

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23°C	45 N/mm²
	(DIN 1164)	
Flexural Strength	Cured 28 days at +23°C	21 N/mm²
Tensile adhesion strength	Cured 7 days at +23°C	> 1,5 N/mm²

APPLICATION INFORMATION

Mixing Ratio	81 : 100	
Consumption	The consumption depends on the flooring system to be installed. Please refer to the corresponding tdocument. As primer: Ca. 0,20 – 0,30 kg/m² As scratch coat : Ca. 1,50 kg/m² (inclusive fillers + water) As floor coating: 0.20 – 0.60 kg/m² As self-leveling body coat: ca. 3,6 – 5,0 kg/m² (2 mm, inclusive fillers + water)	
Ambient Air Temperature	Min.	5°C
	Max.	30°C
Relative Air Humidity	Max.	75%
Substrate Temperature	Min.	5°C
	Max.	30°C
Pot Life	at 20°C	approx. 40 -60 min
Curing Time	at 20°C	10 d
Waiting Time / Overcoating	Min. at 20°C	16 h
	Max. at 20°C	2 d

VALUE BASE

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

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 scavelling (including the necessary post-treatment) are the preferred floor preparation methods.
All capillary cracks and any damaged areas must be repaired and fixed by using a water based epoxy repair mortar (e.g. sand filled Sikafloor®-1700) or cement-based repair mortar. Cracks must be filled by using epoxy based injection resins.
After surface preparation the tensile strength of the sub-strate should exceed 1.5 N/mm² (check with an approved pull-off tester at a load rate of 100 N/s). The temperature of the substrate must be at least 3 K above the current dew point temperature.

MIXING

Sikafloor®-1700 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. Part A should be thoroughly mixed before use. Pour the entire contents of Parts B into the container of part A. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a 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 CONTAINER USED FOR MIXING.
After proper mixing to a homogeneous consistency, pour the mixed Parts A and B into a fresh container and mix for another minute.

APPLICATION

For more information about the way of application, please refer to the corresponding flooring system document.
If masking tapes or protective films are used, they should be removed before the body coat is fully cured.
To avoid colour deviation from one batch to another, apply only one batch number on the same job site.
The workability of reactive resins is influenced by the ambient and substrate temperatures. At low temperatures the chemical reactions are slowed down; this lengthens the pot-life, re-coating interval and open time. At the same the viscosity increases which leads to higher consumption. High temperatures accelerate chemical reactions so that the time frames previously mentioned are shortened accordingly. To fully cure, the material, the substrate and working temperatures must not fall below the minimum application temperature. The relative humidity limitations must be observed.
After application, the material should be protected from direct contact with water for approx.. 24 hours at 20°C. Within this period, contact with water causes white spotting on the surface (carbamate formation) and/ or stickiness which can impair the interlayer adhesion. Should it occur, both of them must be removed.
Apart from these limitations, the respective guidelines for the use of reactive resins should be observed.

CLEANING OF TOOLS

Clean all tools and application equipment with water or 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.

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