

PRODUCT DATA SHEET

Sikafloor®-500

(formerly MTop 500)

Mortar bonding agent for bonded screeds and cementitious mortars.

DESCRIPTION

Sikafloor®-500 is a mortar bonding agent for bonding screeds and cementitious mortars.
Please note: The Product may only be used by experienced professionals only.

USES

Sikafloor®-500 is recommended for:

- for walls and floors
- bonding agent for repair mortar, ready-to-mix mortar for fast-track screeds, drain and screed-mortar and sand-cement mortar
- bonding agent for the installation of fast setting screeds based on binder as well as for conventional cement screeds.
- bonding agent to produce bonded coverings in industrial and commercial areas
- bonding agent for natural stone insensitive to staining and non-translucent.

PRODUCT INFORMATION

Composition	special cement, polymers and aggregates
Packaging	Sikafloor®-500 is packaged in 20 kg PE lined heavy duty paper bags.
Shelf life	Sikafloor®-500 can be stored for 12 months in the tightly closed original packages. Do not use the product if bag is damaged.
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C. No permanent storage over +30°C. Kept frost-free and dry. Always refer to packaging.
Appearance and colour	Grey powder
Grain size distribution	0 – 2,2 mm

FEATURES

Sikafloor®-500 offers following advantages:

- Easy to mix and apply.
- Good adhesion bond strength.
- Cost efficient coverage.
- Highly secure bonding.
- Non toxic.

CERTIFICATES AND TEST REPORTS

CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Cementitious screed material

APPLICATION INFORMATION

Consumption	Approx. 2 to 2,5 kg of dry mortar / m ²	
Layer thickness	approx. 1,5 mm	
Ambient air temperature	+5°C to +30°C	
Mixing ratio	approx. 4,8 l water for 20 kg bag	
Substrate temperature	+5°C to +30°C	
Open Time	At 23°C and 50% RH	Approx. 1 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.

IMPORTANT CONSIDERATIONS

- Do not work with Sikafloor®-500 when substrate temperatures are below +5°C and above +30°C, or in conditions where heat or wind may have a strong effect.
- Substrates treated with water-repellent waterproofing agents or evaporation protection must be pre-treated.
- Only mix a quantity of Sikafloor®-500 that can be used within an hour.
- On large areas apply the slurry in sections. Any further work must be carried out wet on wet.
- The bonding agent must be applied to cover the whole area completely, minimal thickness: 1,5 to 2 mm.
- Never add water or wet Sikafloor®-500 to a Sikafloor®-500 slurry which has already started to set.
- Clean tools, mixing and work equipment with water immediately after use. When product is dry, cleaning is only possible by mechanical means.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, sound, open-pored, absorbent and sufficiently rough. In the case of bonded coverings exposed by heavy use, the concrete substrate must comply with grade B 25 as a minimum. Extremely impermeable and smooth substrates, any layers which are not able to bear weight and also damaged concrete surfaces must be roughened and/or removed by appropriate methods, e.g. jet blasting with solid blasting agents or high pressure water jets. Wet the pre-treated cementitious substrate at least 2 hours, and if possible 24 hours, before applying Sikafloor®-500. Keep it sufficiently damp. Before applying the slurry, the surface must be thoroughly pre-wetted and saturated without any standing water remaining. Avoid puddles forming!

MIXING

Pour 2/3 of the gauging water in a clean mixing container, add Sikafloor®-500 and mix for at least 3 minutes to form a lump-free bonding slurry. Add the rest of gauging water and mix again. Quantities up to 25 kg can be mixed with a suitable paddle attached to a high-speed mixer. Larger quantities should be mixed in a blade-type concrete mixer.

APPLICATION

Apply the mixed Sikafloor®-500 immediately to the prepared surface and work in thoroughly using a hard broom for floors or a brush for walls. Fully cover the whole surface area with the bonding agent. Do not allow the bonding agent to dry. Immediately after applying Sikafloor®-500, apply the screed mortar or cement mortar to be installed wet on wet.

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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