

PRODUCT DATA SHEET

SikaTop[®]-1 S

CEMENT STRENGTHENER AND BONDING AGENT

DESCRIPTION

SikaTop[®]-1 S is a cement strengthener and bonding agent to various substrates. It is a water and oil resistant emulsion which produces bonding coats and polymer modified cement mortars with high mechanical strengths coupled with good resistance to oil and water.

USES

- As a waterproofing thin set layer to bond tiles as well as tile to tile bonding
- As a bonding agent for mortar, rendering and floor screeds
- As a patching and repair mortar
- As a bonding coat between concrete and render (wet on wet)
- As a bonding agent for joining old and new concrete

- Abrasion resistant coverings in hydraulic structures, drainage channels, sewage plants, etc.
- Pointing of brickwork
- As an injection polymer and sealer
- As a plasticiser to sand and cement mortars

CHARACTERISTICS / ADVANTAGES

- Improvement of mortar properties
- Excellent adhesion
- Improved elasticity
- Reduce shrinkage
- Good water and oil resistance
- Anti-chloride
- Improved mechanical resistance
- Improved plasticity and flow. Easy to work with and reduce porosity.

PRODUCT INFORMATION

Chemical Base	Synthetic resin dispersion
Packaging	5 kg can and 20 kg can
Appearance / Colour	Liquid / White
Shelf Life	12 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Keep away from direct sunlight.

APPLICATION INFORMATION

Recommended Dosage	Added to the mixing water within the range of 1 : 0 - 1 : 1.5 depending on application
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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.

LIMITATIONS

Do not use SikaTop®-1 S as bonding agent without adding cement except for injection and sealer applications.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface should be clean, sound and free from oil, grease, cement laitance and all loosely adhering particles.

MIXING

Add to the mixing water prior to its addition to the dry mix aggregates and mix until the desired consistency is achieved.

APPLICATION METHOD / TOOLS

(part by weight)

Application	SikaTop®-1 S : Water	Cement : Graded Sand	Consumption kg/m ³ per cm thick- ness
Bonding coat for ren- dering mor- tar, floor screed	1 : 0	1 : 0.6 - 1	4.6 - 6
Patching / leveling mortar	A. 1 : 0 B. 1 : 0.5	A. 1 : 1 - 3 B. 1 : 3	A. 2.2 - 4.6 B. 1.4 - 2.0
A. Coat < 10 mm B. Coat > 10 mm			
Abrasion resistant floor screed	A. 1 : 0 - 0.5 B. 1 : 0.5 - 1.5	A. 1 : 2 - 3 B. 1 : 2 - 3	A. 1.4 - 3.8 B. 0.8 - 2.6
A. Heavy duty B. Normal duty			
Smooth fin- ishing coats for levelling	1 : 0.5 - 1.0	1 : 2	1.4 - 2.6

Note : Graded sand sizes will vary depending on type of application

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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