

PRODUCT DATA SHEET

SikaRep[®] S

THIN PATCHING REPAIR MORTAR FOR VERY SMOOTH FINISHING

DESCRIPTION

SikaRep[®] S is a cementitious, silicafume containing, fibre reinforced, high performance, polymer modified one-component repair mortar which give very smooth surface finishing.

USES

For concrete repairs, especially for vertical applications.

- Filling / repair mortar for voids, honeycombed areas
- Repair of spalled concrete caused by reinforcement corrosion

CHARACTERISTICS / ADVANTAGES

- To be mixed with water only
- Give very smooth surface finishing
- Excellent workability
- Adjustable consistency
- Excellent thixotropic behaviour, especially suitable for vertical applications.
- Good mechanical strengths
- Applicable in layers up to 20 mm thickness (vertical surface)

PRODUCT INFORMATION

Packaging	20 kg/ bag
Appearance / Colour	Grey
Shelf life	6 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight.
Density	1.30 kg/L (bulk density of powder) 2.03 kg/L (density of fresh mortar) * density at 20°C

TECHNICAL INFORMATION

Compressive Strength	>40 N/mm ² (28 Days)
Tensile Adhesion Strength	>1.5 N/mm ² (28 days, on prepared substrate)

APPLICATION INFORMATION

Mixing Ratio	approx. 4.7 to 5.3 litre water per bag 20 kg
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Consumption	For 1 litre of fresh mortar. 1.46 kg of powder is required. Consumption depends on concrete surface and application method. On a level substrate consumption is approx. 14.5 - 14.8 kg of dry mortar (powder) per m ² at 10 mm layer thickness.
Layer Thickness	20 mm. max.
Ambient Air Temperature	5°C min. / 35°C max.
Pot Life	20 - 30 minutes (at 30°C)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate must be sound, free of loose or weak particles, dust and dirt. Oil and wax containing layers, as well as laitance must be completely removed. The substrate must be thoroughly wetted down prior to the mortar application.

MIXING

SikaRep® S can be hand-mixed in small amounts (easily up to 3 kg of powder). Fill sufficient clean water into a small container. Add SikaRep® S to the water and hand mix thoroughly with a spatula until a smooth workable consistency is achieved. Always respect the water/powder ratio. If a mix has thickened due to delayed application do not dilute further with water. For large repair, a mechanical mixing (of the whole bag) using a drill and a paddle is advisable. Pour water in given quantity in a clean drum and add SikaRep® S slowly while mixing. Use a low speed electric mixer for 3 minutes avoid entrapped follow the ratio 4.7 - 5.3 ltr. of water per bag 20 kg.

APPLICATION

- SikaRep® S can be applied by wet-spray equipment or manually by troweling.
- SikaRep® S has a good bond strength to the concrete.
- For thickness greater than 20 mm on vertical surface, SikaRep® S must be applied in several layers.
- As soon as the mortar has started to set, it can be smoothed by wooden or synthetic float or a styro-foam block.

CURING TREATMENT

- SikaRep® S cures with low shrinkage. To prevent premature drying out of the mortar, keep it moist if exposed to strong sunshine and wind.
- Standard curing methods are recommended.

CLEANING OF EQUIPMENT

Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

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.

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.

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 containing physical, ecological, toxicological and other safety-related data.

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.

Sika (Thailand) Limited

700/37 Moo 5 Amata City Chonburi Estate
KM.57 Bangna Trad Rd., T. Klong Tamhru
A. Muang, Chonburi 20000, Thailand
Tel : +66 3810 9500
E-mail : sikathai@th.sika.com
www.sika.co.th



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