

## PRODUCT DATA SHEET

# Sika® Kanal-Reprofilierungsmörtel

sulphate-resistant repair mortar

## DESCRIPTION

Sika® Kanal-Reprofilierungsmörtel is a 1-part, cementitious hand applied structural concrete repair mortar.

## USES

Sika® Kanal-Reprofilierungsmörtel is used in the system for local or area reprofiling of concrete surfaces, especially in wastewater treatment plants.

## FEATURES

- High sulphate resistance
- High mechanical strength
- Fibre-reinforced
- Very easy processing
- Many years of practical experience

## CERTIFICATES AND TEST REPORTS

Prüfung der Frost-Tau-Wechselbeanspruchung mit Tausalzangriff nach DIN EN 13687-1

## PRODUCT INFORMATION

Composition	Sulphate resistant cement, fibres and additives
Packaging	25 kg bag
Appearance and colour	grey
Shelf life	12 months from date of production
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.
Bulk density	~ 1.6 kg/dm <sup>3</sup>

## TECHNICAL INFORMATION

Compressive strength	~ 25 N/mm <sup>2</sup> (2 days) ~ 46 N/mm <sup>2</sup> (28 days)
Modulus of elasticity in compression	~ 26.700 N/mm <sup>2</sup>
Flexural-strength	~ 4.5 N/mm <sup>2</sup> (2 days) ~ 6.5 N/mm <sup>2</sup> (28 days)
Tensile strength	>1.5 N/mm <sup>2</sup>

## APPLICATION INFORMATION

Mixing ratio	3.4 litres of water for 25 kg powder.
Consumption	This depends on the substrate roughness and thickness of layer applied. As a guide, ~1.9 kg mix of powder and water per m <sup>2</sup> per mm of layer thickness.
Layer thickness	5-20 mm
Ambient air temperature	+5 °C minimum / +30 °C maximum
Substrate temperature	+5 °C minimum / +30 °C maximum
Application time	~ 45 minutes (20°C)
Fresh mortar density	~ 1.9 kg/l

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Concrete

The substrate shall be thoroughly clean, free from dust, loose material, surface contamination and material which reduce bond or prevent suction or wetting by repair materials. De-laminated, weak, damaged and deteriorated substrate and where necessary sound substrate shall be removed by suitable means. Ensure sufficient concrete is removed from around corroded reinforcement to allow cleaning, corrosion protection coating (where required) and compaction of the repair material.

Repair surface areas should be prepared to provide simple square or rectangular layouts to avoid shrinkage stress concentrations and cracking while the repair material cures. This can also avoid structural stress concentrations from thermal movement and loading during the service life.

#### Steel reinforcement

Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed. Surfaces shall be prepared using abrasive blast cleaning techniques or high pressure water-blasting to SA 2 1/2 (DIN EN ISO 12944-4).

### MIXING

#### Hand Application

Sika® Kanal-Reprofilierungsmörtel can be mixed with a low speed (<500 rpm) hand drill mixer or for machine application, using a force action mixer 2 to 3 bags or more at once depending the type and size of mixer. For small quantities, product can be manually mixed. Pour the minimum recommended water in a suitable mixing container. While stirring slowly, add the

powder to the water and mix thoroughly for at least for 3 minutes adding additional water if necessary to the maximum specified amount and adjust to the required consistency. The consistency must be checked after every mix.

A maturing time of 5 minutes must be observed.

### APPLICATION

Thoroughly pre-wet the prepared substrate (2 hours recommended) before application. Keep the surface wet and do not allow to dry. Before application remove excess water, e.g. with a clean sponge. The surface shall appear a dark matt appearance without glistening and surface pores and cavities shall not contain water.

When manually applying by hand, apply bonding primer. Ensure the whole surface to be repaired is covered by the suitable primer. The repair mortar shall be applied onto the wet scratch coat between the minimum and maximum layer thicknesses without the formation of voids. Where layers are to be built up, to prevent sagging or slumping, each layer should be allowed to stiffen before applying subsequent layers "wet on wet".

### CURING TREATMENT

Protect fresh mortar immediately from premature drying using an appropriate curing method, e.g. curing compound, moist geotextile membrane, polythene sheet, etc.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

## 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 the exact product data and uses.

#### PRODUCT DATA SHEET

Sika® Kanal-Reprofilierungsmörtel

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## 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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