

PRODUCT DATA SHEET

Sika MonoTop®-3731

High strength, fiber-reinforced, cementitious, structural repair mortar

DESCRIPTION

Sika MonoTop®-3731 is a fiber-reinforced non-shrink, cementitious mortar for repair of concrete structures with application thickness of 5mm to 50mm.

USES

- Repair of concrete surfaces: spalling, honeycombing, stairnosing, ramp, etc.
- Concrete restructuring: columns, slabs, posts, dams, aprons, spillways etc.
- Reinforcement of weakened structures: balconies and cornices
- Precast beddings

CHARACTERISTICS / ADVANTAGES

- High final compressive strength
- Fiber reinforced - controlled thermal cracking
- To be mixed with water only
- Easy to apply
- Good workability

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf Life	If properly stored in its original, unopened valve bag, the product shelf life is 12 months from the date of manufacture.
Storage Conditions	Store in a cool dry place.

TECHNICAL INFORMATION

Compressive Strength	60 to 70 MPa at 28 days (ASTM C109)
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APPLICATION INFORMATION

Mixing Ratio	4L of water per 25 kg bag (16% WC)
Layer Thickness	5 mm to 50 mm
Substrate Temperature	10°C to 35°C

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.

ECOLOGY, HEALTH AND SAFETY

Please refer to the latest Safety Data Sheet

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Chip or remove loose and damaged concrete and laitance using a point tool or chisel in order to obtain a clean, rough surface. Clear out concrete around corroded re-bars in order to create space for inserting the product behind and around them. The boundaries of the surface to be repaired must be clearly defined. The substrate must be free of all traces of grease and oil. Brush, scrape or sandblast corroded rebars in order to remove non – adherent rust. Dust off all surfaces to be repaired.

SUBSTRATE QUALITY / PRE-TREATMENT

Usage of a bonding agent e.g. Sikadur 732 prior to product application is highly encouraged. The substrate must be dry <4% moisture content prior to the application of the epoxy adhesion promoter.

MIXING

For the product to be adequately mixed, machine – mix one 25 kg of Sika Monotop-3731 with 4 litres of clean water (16%water content) for 3 minutes minimum until evenly distributed. Hand - mixing is not advisable and might result in the material not reaching the desired uniformity or consistency. Workable life after mixing: approximately 30 minutes at 20°C. No additional water, exceeding the recommended 4L per bag, must be added during and after the mixing.

APPLICATION

Apply a first batch of Sika Monotop-3731 with a stainless steel trowel, to the substrate, and press firmly to ensure bonding. Apply additional mortar layer by layer using spatula or steel trowel, pressing firmly to obtain the desired overall thickness. Finish the surface of the repaired surface using a stainless steel trowel or rubber float. For large surfaces, the mortar may be applied by machine spray.

CURING TREATMENT

After finishing, protect the mortar from drying out by applying curing compound or any approved concrete curing methods (wet burlap, water misting, covering with polyethylene sheet, etc)

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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