Construction

Sika Top® -121

Thixotropic, Polymer Modified Patching and Adhesive Mortar

Product Description	Sika Top® -121 is a two component cement based polymer modified trowel applied, adhesive and filling compound for the protection and repair of concrete and metal surfaces.
Uses	Sika Top® -121 is a versatile material that can be employed to carry out the following functions: ■ Protective Coating for bridge parapets retaining walls, etc., against deicing salts. ■ Filling Compound to level off irregularities and fill blowholes and fine honeycombs. ■ Adhesive for floor and wall tiles. ■ Rending for reservoirs. ■ Bonding Mortar between new and old concrete.
Advantages	Sika Top® -121 is an economical and easy to use material offering the following properties: ■ Easy to mix and apply. ■ Good mechanical strength. ■ Excellent adhesion. ■ High resistance to de- icing salts. ■ Non Toxic when fully cured. ■ Resistant to city sewage medium.
Certificates of Approval	Sika Top®-121 has been tested as per SCAQMD Rule 1168. **Result: VOC Content < 5 g/L**

Product Data

Form	Comp. (A): Liquid Comp. (B): Powder
Colour	Grey
Packaging	Comp. (A+B): 25 kg units.
Storage	Comp. (A) must be protected from frost and sunlight. Comp. (B) must be protected from moisture and sunlight, off the ground.
Shelf life	12 months from date of production if stored properly in original unopened packing

Technical Data

Density	Comp. (A): 1.02 kg/l Comp. (B): 1.25 kg/l Comp. (A+B): 2.00 kg/l (mixed)	
Mechanical Strengths (After 28 days; 20º C)	■ Compressive strength	~ 40 N/mm^2
	■ Flexural strength	10 - 14 N/mm^2
	■ Bond strength to concrete	~ 3 N/mm^2 (concrete failure).
	■ Bond strength to ceramic.	~ 3 N/mm^2

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Application Data

Mix ratio	Parts by weights comp (A: B) = 1:4 or 1: 5 (depending on required consistency)
Coverage	2 kg/m^2 per mm thickness.
Surface preparation	Concrete, stone and masonry surfaces should be clean, free from oil, grease and all loosely adhering particles. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease. Absorbent surfaces should be saturated thoroughly.

Application

Mixing	Both components are pre measured for use as an adhesive. Place the full contents of Comp. (A) in a suitable mixing container. Add Comp. (B) and mix for 3 minutes until a smooth, even consistency is achieved. When using as a filling compound use only 80 or 90% of Comp. (A) depending on the required consistency.
Application	When used as tile adhesive or bonding agent, apply to the desired thickness, with a notched trowel. For tiling, press the tiles firmly into place while the adhesive is still wet. When using as a bonding agent to be rendered later, allow to harden first. When using as a filler apply with a spatula or trowel to desired profile and finish.
Important Notes	■ Minimum application temperature: 8°C. ■ Maximum thickness per layer: 5 mm.
Cleaning	Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.
Curing	Use approved curing methods, like Antisol® -E curing compound, etc.

Safety Instructions

Ecology	In liquid state product will contaminate water. Do not dispose of into water or soil, but according to local regulations
Transport	Non-hazardous.
Safety Precautions	Wear protective clothing (gloves, goggles) if material comes into contact with eyes or mucous membrane, rinse with warm water, seek medical attention.
Toxicity	Non-Toxic under relevant health and safety codes.

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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