

PRODUCT DATA SHEET

Sika MonoTop®-613 IND

FIBRE REINFORCED CEMENTITIOUS REPAIR MORTAR

DESCRIPTION

Sika MonoTop®-613 IND is cementitious, fibre reinforced; polymer modified one-component repair mortar.

USES

For concrete repairs.

CHARACTERISTICS / ADVANTAGES

- To be mixed with water only
- Excellent workability
- Adjustable consistency
- Excellent thixotropic behaviour, suitable for overhead and vertical applications
- Good mechanical strengths
- Excellent frost resistance
- Applicable in layers up to 50 mm thickness
- Non corrosive, non-toxic
- Suitable for wet spray application

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Powder / Grey
Shelf Life	9 months from date of production if stored properly in unopened original packing
Storage Conditions	Store in dry, cool and shaded place
Density	~2.05 kg/L (density of fresh mortar)

TECHNICAL INFORMATION

Compressive Strength	1 day	~ 15 N/mm ²	(ASTM C-109)
	7 days	~ 35 N/mm ²	
	28 days	~ 45 N/mm ²	
Modulus of Elasticity in Compression	~ 20 000 N/mm ²		
Tensile Strength in Flexure	1 day	~ 5.0 N/mm ²	(ASTM C-348)
	7 days	~ 8.0 N/mm ²	
	28 days	~ 10.0 N/mm ²	
Tensile Adhesion Strength	28 days	~ 1.5 N/mm ² Concrete failure	(ASTM C-496)

APPLICATION INFORMATION

Mixing Ratio	Water : Powder = 1 : 7.3 - 8.1 parts by weight (i.e. approx 3.25 L water per 25 kg bag)
Consumption	For 1 litre of fresh mortar: 1.85 – 1.9 kg powder are required. Material consumption depends on concrete surface and application method. On level substrate consumption is approx. 18.5 – 19.5 kg of dry mortar (powder) per m ² at 10 mm layer thickness.
Layer Thickness	Minimum 5 mm / Maximum 50 mm
Ambient Air Temperature	Minimum +5°C / Maximum +35°C
Pot Life	25 min (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. For optimum bond, surfaces shall be well-roughened.

MIXING

Pour water in given quantity into the mixing container. Add powder while mixing continuously. Use low speed electric mixers (max. 500 rpm) for 3 minutes avoiding entrapping of air. By adding the powder in portions, the desired application consistency can be obtained.

APPLICATION

Sika MonoTop®-613 IND can be applied by wet-spray equipment such as Putzmeister, Melomat, Vario-Jet etc. The mortar can also be applied with spatula or trowel. The mortar is applied on well-saturated concrete substrate. For thickness greater than 50 mm Sika MonoTop®-613 IND 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.

NOTES

No additional water must be used.

To achieve good bonding it is recommended to apply SikaTop 121 as bonding coat especially on large area application Sika MonoTop®-613 IND cures with low shrinkage.

To prevent premature drying out of the mortar, keep it moist if exposed to strong sunshine or wind. Standard curing methods are recommended.

For very fine surface finish, the application of SikaTop 121 as filling compound on top of Sika MonoTop®-613 IND is advised.

CLEANING OF TOOLS

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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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.

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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