

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

- It is ideal for use in repairing damaged and spalled concrete on vertical area caused by reinforcement corrosion.
- Sika MonoTop®-613 IND can be used for most types of general concrete repair and refurbishment work.
- Repair of honeycombed, damaged and spalled concrete
- Suitable for use as part of a concrete repair system in combination with Sika MonoTop®-610 as bonding primer and reinforcement corrosion protection

FEATURES

- 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 40 mm thickness (vertical area)
- Non corrosive, non-toxic

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance and 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	~12 N/mm ²	(ASTM C-109)
	7 days	~35 N/mm ²	
	28 days	~45 N/mm ²	
Flexural-strength	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/mm²

Concrete failure

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APPLICATION INFORMATION

Mixing ratio	Approx. 3.25 litres of clean water per 25 kg bag (≈ 0.13 litre or 130 ml of water per 1 kg of powder). Adjust water slightly to achieve required consistency.	
Consumption	Approx. 18.5 – 19.5 kg of dry mortar per m ² per 10 mm thickness (≈ 1.9 kg per m ² per 1 mm thickness). Actual consumption depends on substrate condition and application method.	
Layer thickness	Minimum 5 mm / Maximum 40 mm	
Ambient air temperature	Minimum +5 °C / Maximum +35 °C	
Pot Life	at 30 °C	25 min

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. This Product Data Sheet is adapted from the Sika MonoTop®-613 IND Product Data Sheet. Technical data remains unchanged. Description and application guidance are adapted for local use in Cambodia.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 with spatula or trowel. The mortar is applied on well-saturated concrete substrate. For thickness greater than 40 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 styrofoam 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 EQUIPMENT

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

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 exact product data and uses.

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 (Cambodia) Ltd.

Legacy Business Center, Building #29
street 245
Sangkat Tuol Tom Poung 2, Khan
Chamkarmorn
12308, Phnom Penh, Cambodia
Tel: +855 23 901 450

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