

## PRODUCT DATA SHEET

# Sika MonoTop<sup>®</sup>-610 MM

## BONDING MORTAR AND REINFORCEMENT PROTECTION

### DESCRIPTION

Sika MonoTop<sup>®</sup>-610 MM is a one-part, cementitious, polymer modified mortar containing silica fume and corrosion inhibitors.

### USES

As a treatment for preventing continued corrosion of reinforcement in concrete and as a bonding bridge for concrete repair using the Sika MonoTop<sup>®</sup> Concrete repair system

### CHARACTERISTICS / ADVANTAGES

- One part system, requires only the addition of water
- Easily applied by brush, roller or spray
- Excellent bonding to steel and concrete
- Highly impermeable to water and chlorides
- Can be applied to damp substrates
- High mechanical strengths
- Non-toxic
- Alkaline passivating effect due to high cement content
- Contains corrosion inhibitors

### PRODUCT INFORMATION

Packaging	25 kg bags	
Shelf life	6 months from the date of production	
Storage conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight, rain and water.	
Appearance and colour	Grey powder	
Density	Powder	~1.15 kg/l
	Freshly mixed mortar	~2.0 kg/l

### TECHNICAL INFORMATION

Tensile adhesion strength	≥1.5 N/mm <sup>2</sup> (on prepared concrete)	(ASTM D4541)
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### SYSTEM INFORMATION

System structure	Sika MonoTop <sup>®</sup> System comprises: <ul style="list-style-type: none"><li>▪ Sika MonoTop<sup>®</sup>-610 MM bonding and reinforcement protection</li><li>▪ Sika MonoTop<sup>®</sup>-412 MM</li><li>▪ Sika MonoTop<sup>®</sup>-620 MY pore sealer / fairing coat</li></ul>
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## APPLICATION INFORMATION

Mixing ratio	4.5–5.0 L of water per 25 kg bag	
Consumption	Bonding mortar	1.65 kg/m <sup>2</sup> (depending on the substrate surface)
	Reinforcement protection	~1.65 kg of powder per m <sup>2</sup> per coat of 1 mm thick (2 coats are required)
Layer thickness	1 mm min. / 3 mm max.	
Ambient air temperature	+5 °C min. / +40 °C max.	
Substrate temperature	+5 °C min. / +40 °C max.	
Pot Life	~1 hour (+25 °C)	

## 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.

## LIMITATIONS

High quality, long term repairs can only be achieved if they are carried out conscientiously by experienced applicators giving adequate attention to details relating to surface preparation, priming of concrete and steel, mixing of repair mortars, application and curing.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Concrete

The concrete must be structurally sound, laitance free, clean and free from dirt, oil, grease or other surface contaminants. All loose or friable particles shall be removed. For large concrete areas, grit or grit-water blasting, scarifying or scabbling is recommended. For small areas and "spot" repairs, needle gunning or scabbling is effective. Precaution shall be taken to ensure that the substrate does not contain any coating, e.g. curing membrane, which will prevent Sika MonoTop®-610 MM from penetrating into the substrate. The prepared substrate shall be thoroughly soaked with clean water until uniformly saturated but with no standing surface water. This condition is referred to as saturated surface dry (SSD). Cement slurry or dust produced during surface preparation shall be removed using a "fan" shaped water jet or any other appropriate method.

#### Steel reinforcement

Steel reinforcement surfaces must be free from rust, oil, grease or any other loosely adhering particles. The surfaces shall be prepared using approved abrasive blast cleaning techniques e.g. wire-brushed or water / grit blasted.

### MIXING

Pour the water in the correct proportion into a suitable mixing container. While stirring slowly, add Sika MonoTop®-610 MM to the water. Hand mix thoroughly with a spatula to a thick "slurry" consistency. Always ensure that there are no lumps in the mix. If a mix has thickened due to delayed application, do not dilute further with water. This mix should be discarded.

### APPLICATION

#### Concrete

Use a brush to apply a coat of freshly mixed slurry of Sika MonoTop®-610 MM on to the substrate, covering it completely. This is followed immediately with a "wet-on-wet" application of the patch repair mortar (e.g. Sika MonoTop®-412 MM).

#### Steel reinforcement

Use a brush to apply 2 coats of freshly mixed slurry of Sika MonoTop®-610 MM onto the prepared steel reinforcement prior to the application of the patch repair mortar. Precaution should be taken to ensure that the back of the reinforcement is also coated with Sika MonoTop®-610 MM.

### CLEANING OF TOOLS

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

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## 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.

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