

## PRODUCT DATA SHEET

# Sika MonoTop®-610 T

## One Component Bonding Agent & Reinforcement Corrosion Protection

### DESCRIPTION

Sika MonoTop®-610 T is a one component, cementitious, polymer modified slurry containing Silica fume and corrosion inhibitors.

### USES

As a treatment for preventing continued corrosion of reinforcement in concrete or as a bonding bridge for concrete repair using the Sika® MonoTop® concrete repair system comprising:

- Sika MonoTop®-614 T Patching Mortar
- Sika MonoTop® -615 HB Patching Mortar

### CHARACTERISTICS / ADVANTAGES

- One component system requiring only the addition of clean 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
- Alkaline passivating effect due to high cement content
- Contains corrosion inhibitors

### PRODUCT INFORMATION

<b>Packaging</b>	20 kg/ bag
<b>Shelf Life</b>	6 months from date of production if stored in undamaged and unopened, original sealed packaging.
<b>Storage Conditions</b>	Store in dry and cool conditions, protected from direct sunlight.
<b>Appearance / Colour</b>	Powder Grey
<b>Density</b>	1.15 kg/ l (dry powder) 2.00 kg/ l (freshly mixed mortar)

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	> 50.0 N/mm <sup>2</sup> (28 days at 25°C)
<b>Tensile Adhesion Strength</b>	>2.00 N/mm <sup>2</sup> (on prepared concrete)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	4.2 to 4.4 litres per 20 kg bag. <b>Ratio Water : Powder</b> 1 : 4.6 by weight 1 : 4.0 by volume If a mix has thickened due to delayed application, do not dilute further with water.
<b>Consumption</b>	For 1 litre of Fresh Mortar approx. 1.65 kg of powder are needed. <b>As bonding slurry :</b> Depending on substrate condition, approx.1.5-2.0 kg/m <sup>2</sup> dry mortar <b>As anticorrosion coating on reinforcement :</b> approx. 3.5 kg/m <sup>2</sup> dry mortar (powder) for 2 coats at 1 mm dry film thickness each.
<b>Layer Thickness</b>	Min. 1 mm Max. 3 mm
<b>Ambient Air Temperature</b>	Optimal range : between 5°C and 35°C
<b>Pot Life</b>	approx 20 minutes. (at 30°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.

## 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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

**Concrete :** Must be sound, clean and free of loose or weak particles, dust and dirt. In particular, oil and wax containing layers as well as laitance must be completely removed. The prepared surface should be dampened down with clean water.

**Steel :** Reinforcement must be suitably wire-brushed or water/grit-blasted to provide a surface free of rust, oil, grease or any other contaminants.

### MIXING

Sika MonoTop®-610 T can be hand-mixed in small amounts for immediate application. This is to ensure "wet on wet" application of subsequent patch repair mortars (either Sika® MonoTop®-

614T or 615HB) and thus minimising wastage. Fill sufficient clean water into a small clean container. Add Sika MonoTop®-610 T to the water and hand mix thoroughly with a spatula until you obtain a thick "slurry" consistency. Always ensure that there are no lumps in the mix.

### APPLICATION

#### As reinforcement protection :

Apply first layer of approx. 1 mm thickness, using medium hard brush, roller or spray to the cleaned reinforcement. Apply the second layer of identical thickness after a waiting time of 1.5 - 2.0 hrs. (at +30°C). Following repair mortars can be applied after a similar waiting time.

#### As bonding bridge :

Apply by brush, roller or suitable spraying equipment to the prepared (wetted to saturated surface dry) substrate. To achieve a good bond with the substrate, and to make sure that the whole area is fully coated with the bonding slurry it has to be rubbed well into the substrate. Following repair mortars have to be applied to the wet bonding slurry.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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