

## PRODUCT DATA SHEET

# Sika MonoTop®-615 HSF SA

### FORMERLY KNOWN AS SIKAREP® HSF SA.

MULTI-PURPOSE, HIGH STRENGTH, FIBRE-REINFORCED, PATCHING AND REPAIR MORTAR

### DESCRIPTION

Sika MonoTop®-615 HSF SA is a cementitious, synthetic fibre reinforced, silica fume and polymer containing, one-component repair mortar. Suitable for use in hot and tropical climatic conditions.

### USES

Sika MonoTop®-615 HSF SA can be used for cosmetic or structural repair of deteriorated concrete and mortar on exterior or interior, horizontal and vertical applications.

### CHARACTERISTICS / ADVANTAGES

- Easy to mix, apply and finish
- Good adhesion
- Shrinkage compensated
- Compatible with the properties of typical concretes
- Low water absorption, but vapour permeable
- Non corrosive
- Excellent chloride and carbonation resistance
- Fibre reinforced
- High strength

### PRODUCT INFORMATION

<b>Composition</b>	Polymer containing cementitious mortar with different additives and synthetic fibres
<b>Packaging</b>	25 kg bag
<b>Appearance / Colour</b>	Grey powder
<b>Shelf life</b>	12 months minimum from production
<b>Storage conditions</b>	Store in dry area in original sealed packaging at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat, and moisture.
<b>Maximum Grain Size</b>	~6 mm

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	<b>w/p ratio = 0.16</b>	<b>7 Days</b>	<b>14 Days</b>	<b>28 Days</b>	(ASTM C109)
		~ 45 N/mm <sup>2</sup>	~55 N/mm <sup>2</sup>	~65 N/mm <sup>2</sup>	
<b>Tensile Adhesion Strength</b>	≥ 1.5 N/mm <sup>2</sup> (or concrete failure)				(EN 1881)

### APPLICATION INFORMATION

<b>Mixing Ratio</b>	4.0 - 4.5 L of water per 25 kg bag
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<b>Fresh Mortar Density</b>	~2.20 kg/l (+25 °C)
<b>Yield</b>	~13.2 L per 25 kg bag
<b>Layer Thickness</b>	Min. 5 mm per layer Max. 40 mm per layer
<b>Ambient Air Temperature</b>	+5 °C min / +40 °C max
<b>Substrate Temperature</b>	+5 °C min / +40 °C max
<b>Pot Life</b>	~40 min (+25 °C)

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blast cleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).
- Steel surfaces shall be prepared using abrasive blast cleaning techniques or high pressure water-blasting to SA 2 (ISO 8501-1)
- Reference shall be made to EN1504-10 for specific requirements.

### BONDING AGENT AND STEEL PROTECTION

- Embedded steel reinforcing should be free from scale, rust, oil and grease, and treated with a suitable anticorrosion coating such as SikaTop® Armatec®-110 EpoCem®.
- The application of a suitable bonding agent, such as Sikadur®-32 LP or SikaTop® Armatec®-110 EpoCem®, will improve adhesion on large areas or where particularly dense concrete substrates are involved.

### MIXING

Add water according to the desired consistency into a clean mixing vessel before slowly adding the Sika MonoTop®-615 HSF SA powder. Sika MonoTop®-615 HSF SA is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, not longer than 5 minutes. Slow speed double paddle drill (maximum 500 rpm) can be also used for mixing. Normal tumble type concrete mixers are not suitable. Do not add extra water or other ingredients. Mix only full bags for the best result.

### APPLICATION

Apply Sika MonoTop®-615 HSF SA while the bonding agent is still wet. The mortar can be applied by spatula or trowel.

For any thickness more than 40 mm, Sika MonoTop®-615 HSF SA must be applied in several layers.

As soon as the mortar has started to set it can be smoothed by wooden or synthetic float. For fine surface finish SikaRep® Fine SA, Sika MonoTop®-625 SA can be applied over the Sika MonoTop®-615 HSF SA.

### CURING TREATMENT

Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or application of a suitable water based curing compound like Antisol®-WB is recommended. Do not commence fogging until final set has been reached.

### CLEANING OF EQUIPMENT

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

## IMPORTANT CONSIDERATIONS

Do not over work the finished surface as this will produce cement rich surface texture, which may cause the formation of random (crazing) cracking in the surface. Over work of the finished surface could also disturb the mortar bond on the concrete substrate.

## 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.

## 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 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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Sika Qatar LLC  
ISO 14001: Sika UAE LLC,  
Sika Gulf B.S.C. (c),  
Sika Saudi Arabia Co. Ltd  
OHSAS: Sika UAE LLC,  
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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
18001.

### Product Data Sheet

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