

## PRODUCT DATA SHEET

# Sika MonoTop®-620 BH

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ONE COMPONENT, POLYMER MODIFIED, FINISHING MORTAR AND FAIRING COAT

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## DESCRIPTION

Sika MonoTop®-620 BH is a polymer modified cementitious mortar containing silica fume for use as a finishing and protective top coat for concrete repair patches. The product is suitable for use in tropical and hot climates.

## USES

Sika MonoTop®-620 BH can be used as a:

- Pore sealer / finishing coat on cementitious substrates
- Thin layer render coat on horizontal and vertical areas in building and civil engineering construction, for external and internal finishing etc.
- Levelling mortar on uneven substrates, and profiled concrete surfaces.
- Fine repair mortar to fill honeycombs, pores etc.
- Repair mortar for repair of small defects on edges and joint sides; to form and finish joints and coverings.

## CHARACTERISTICS / ADVANTAGES

- Easy to use; mix with water only
- User friendly application; excellent workability
- Good mechanical strengths
- Sprayable by wet-spray method
- Non-corrosive
- Adjustable consistency
- High bond strength

## PRODUCT INFORMATION

<b>Composition</b>	Polymer containing cementitious mortar with different additives
<b>Packaging</b>	25 kg bag
<b>Shelf life</b>	12 months minimum from date of production if stored properly in original sealed packaging.
<b>Storage conditions</b>	Store in cool and dry conditions in unopened, undamaged and sealed original packaging at temperatures between +10 °C and +40 °C. Protect from direct sunlight, heat and moisture.
<b>Appearance and colour</b>	Grey Powder
<b>Maximum grain size</b>	~0.5 mm

## TECHNICAL INFORMATION

Compressive strength	W/P ratio	28 days	(EN 12190)
	0.20	~30 N/mm <sup>2</sup>	
Tensile strength in flexure	~5 N/mm <sup>2</sup> (28d)		(EN 196-1)
Tensile adhesion strength	~1.0 N/mm <sup>2</sup> (28d)		(EN 1542)

## APPLICATION INFORMATION

Mixing ratio	4.75 - 5.00 L of water per 25 kg bag
Fresh mortar density	~2.00 kg/l
Yield	~14.90 - 15.10 L / 25 kg bag
Layer thickness	1.5 mm minimum 5 mm maximum
Ambient air temperature	+5 °C min. / +40 °C max.
Substrate temperature	+5 °C min. / +40 °C max.
Pot Life	~60 minutes (23°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.

## IMPORTANT CONSIDERATIONS

- Do not exceed the maximum layer thickness.
- Protect freshly applied material from rain etc.
- Sika MonoTop®-620 BH should not be used at temperatures below 5 °C.
- At ambient temperatures above 35°C, the material should be stored in the shade and chilled water should be used for mixing.
- Sika MonoTop®-620 BH may be over-coated with Sika protective coatings such as SikaTop® Seal-107, Sika® Seal-105, Sikagard®-550 W Elastic (G) and other suitable SikaTop or Sika MonoTop products. Refer to relevant product data sheets.

## 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 shall be thoroughly clean, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials. De-laminated, weak, dam-

aged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means.

Steel Reinforcement:

Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed. 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 EN 1504-10 for specific requirements.

### MIXING

Sika MonoTop®-620 BH can be mixed with a low speed (<500 rpm) hand drill mixer or for machine application, using a force action mixer 2 to 3 bags or more at once depending the type and size of mixer. Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly approximately for 3 minutes to achieve the required consistency and to avoid entrapping of air .

### APPLICATION

Bonding Primer:

On a well prepared and roughened substrate a bonding primer is generally not required for this product. When a bonding primer is required, refer to the System Information above for compatible Sika products and refer to the relevant Product Data Sheet for instructions.

Sika MonoTop®-620 BH can be applied either manually using traditional techniques or mechanically using wet spray equipment. Thoroughly pre-wet the prepared substrate a recommended 2 hours before application. Keep the surface wet and do not allow to dry. Before application remove excess water e.g. with a clean sponge. The surface shall appear a dark matt

appearance without glistening and surface pores and pits shall not contain water.

When manually applying the mortar first make a scratch coat by firmly scrapping the repair mortar over the substrate surface to form a thin layer and fill any pores or pits in the surface. The surface can be finished according to the requirements using a float or with a relevant wooden or plastic float or damp sponge.

### CURING TREATMENT

Protect the fresh mortar immediately from premature drying using an appropriate curing method e.g. moist geotextile membrane, polythene sheet, etc.

### CLEANING OF EQUIPMENT

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

## 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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ISO 9001: Sika UAE LLC,  
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Sika International Chemicals LLC,  
ISO 45001: 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 ISO 45001.

SikaMonoTop-620BH-en-AE-(01-2022)-1-1.pdf

#### Product Data Sheet

Sika MonoTop®-620 BH  
January 2022, Version 01.01  
020302040030000483

