BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-122

FIBER REINFORCED POLYMER MODIFIED REPAIR MORTAR

DESCRIPTION

SikaTop®-122 is a two-component high performance, cement based, polymer modified, fiber reinforced, structural concrete repair mortar. Suitable for horizontal, vertical and overhead applications.

USES

- Use as concrete repair mortar for repairing damages in concrete structures like beams, piles, slabs, posts, pipes, precast elements, etc.
- Use in horizontal, vertical and overhead applications without the need of formworks.
- Repairing concrete defects like pores, honeycombs and level irregularities.
- Use as high adhesion render, with high abrasion resistance, waterproof to protect, repair and maintain concrete structures.

CHARACTERISTICS / ADVANTAGES

- Excellent adherence
- High compression resistances at all ages
- Compatible with the concrete thermic expansion coefficient (ASTM C-884 modified)
- Synthetic fiber reinforced
- High abrasion, wear and impact resistance

APPROVALS / CERTIFICATES

Insert local test reports

PRODUCT INFORMATION

Composition	Cement, synthetic fibers, selected aggregates and additives
Packaging	30 kg: A (5 kg) + B (25 kg)
Appearance / Colour	Mixed components light grey. Component A: white liquid Component B: grey powder
Shelf life	6 months
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions between +5 °C and +30 °C.
Density	A+B density: ~2.2 kg/l at +20 °C

TECHNICAL INFORMATION

Compressive Strength	~42 MPa after 28 days at +20 °C
Tensile Strength in Flexure	~7 MPa after 28 days at +20 °C
Tensile Adhesion Strength	~2.5 MPa

SYSTEMS

System Structure	**Repair Mortar**	
	SikaTop®-122	Normal Use
	Levelling Mortar	
	SikaTop®-121	Normal Use

APPLICATION INFORMATION

Mixing Ratio	Parts by weight: A: B = 1: 5 Parts by volume: A: B = 1: 4	
Consumption	This depends on the substrate roughness and thickness of the layer applied. As a guide, ~22 kg of powder per cm thick per m^2	
Yield	30 kg of product yields approximately 13 litres of mortar	
Layer Thickness	Minimum 3 mm / maximum 20 mm	
Ambient Air Temperature	+ 8°C minimum; + 30 °C maximum	
Substrate Temperature	+ 8°C minimum; + 30 °C maximum	
Waiting Time / Overcoating	2 days	Light traffic
	7 days	Heavy traffic

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, damaged, 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).

MIXING

SikaTop®-122 can be mixed with a low speed (<250 rpm) hand drill mixer.
Shake Component A (liquid) and pour it into a suitable mixing vessel. While mixing add Component B (powder) into the mix. Mix the two components together for a minimum 3 minutes. DO NOT ADD WATER

APPLICATION

SikaTop®-122 can be applied manually using traditional techniques. 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.
Apply first 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. Ensure the whole surface to be repaired is covered by the scratch coat. Build up layers from bottom to top by pressing mortar well into the repair area.
The surface can be finished according to the requirements using a float while wet or with a relevant roughcast tool as soon as the mortar has started to stiffen.

CURING TREATMENT

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

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

- DO NOT ADD WATER
- Avoid application in direct sun and/ or strong wind and/ or rain.
- Protect freshly applied material from freezing and rain.
- Apply only to sound, prepared substrate.
- Do not add additional water during the surface finishing as this will cause discolouration and cracking.

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.

Sika Lanka (Private) Limited
No. 58/12-B
Raja Mawatha
Ekala, Ja-Ela
Sri Lanka