

PRODUCT DATA SHEET

Sika MonoTop®-632 K

FAST CURING SELF-LEVELLING MORTAR FOR THIN LAYERS

DESCRIPTION

One-component premixed cementitious, fluid, self-leveling, rapid curing, mortar composed of high-resistance cements, selected silicon/quartz mineral fillers and specific additives. Suitable for indoor substrates leveling for areas that will be finished with ceramic tiles, plastic coatings, natural stones, floating or fixed parquet, linoleum, moquette.

USES

- Fast curing leveling layer from 3 to 15 mm thickness of indoor light traffic areas such as offices, airports, schools, hospitals, public areas, laboratories, libraries, etc..

CHARACTERISTICS / ADVANTAGES

- Suitable for floor heating
- High mechanical strength
- Very high bonding properties
- Rapid curing
- Suitable for thickness up to 15 mm
- Very smooth surface
- Suitable for pumping

PRODUCT INFORMATION

Composition	High-resistance cement, selected silicon/quartz mineral filler, organic polymers and specific additives	
Packaging	25kg bag	
Appearance / Colour	Grey powder	
Shelf life	6 month from date of production	
Storage conditions	stored properly in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C.	
Density	Mixture: ~ 1.8 kg/l	
Compressive Strength	> 20 N/mm ² (20 °C, 28 days)	(KS F 4041)
Tensile Adhesion Strength	> 1.5 N/mm ² (+ 20 °C)	(KS F 4041)
Mixing Ratio	~ 5.7~6.2 l of water (23~25 %) per 25 kg bag.	
Consumption	1.5 - 1.6kg/m ² per mm of thickness	
Layer Thickness	Min. = 3 mm Max. = 15 mm	

Flowability	215 mm			(KS F 4041)
Ambient Air Temperature	+5°C min. / +30°C max.			
Substrate Temperature	+5°C min. / +30°C max.			
Pot Life	~ 20 min.			
Initial Set Time	~1 hour (20°C)			
Final Set Time	~1.5 hours (20°C)			
Waiting Time / Overcoating	Foot traffic	Overcoating with ceramic tiles or moquette	Overcoating with plastic or wooden layer	
	~ 3~5 h*	~ 24-26 h*	~ 48-72 h*	
* At +23°C and r.h. 50%, higher temperature can reduce these times and lower temperature can increase them.				

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The surface must be clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc.
- If in doubt apply a test area first.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- If to be sealed with an impervious material, ensure that an effective damp proof membrane is in place before installation of Sika MonoTop®-632 K.
- Repairs to the substrate, filling of blowholes/voids must be carried out using appropriate products from the Sika Patch®, Sika Level®, Sikafloor® or Sikadur® range of materials.
- Dewpoint: Beware of condensation!
The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation, blooming or laitance on the floor finish.
- Acrylic primer such as SikaMonotop® - 632K Primer can be used on good substrates.
- For all of the ancillary products, please refer to their relevant PDS.

MIXING

Add the dry powder Sika MonoTop®-632 K into a mixing container with clean water.
The water amount must be between 5.7~6.2 l per 25 kg of material.
Mix thoroughly for a minimum of 3 minutes by the use of a low speed electric stirrer (300 - 400 rpm). To avoid lumps it is advisable to pour at first a little amount of water in order to get an high-viscosity homogeneous

mixture. Afterwards, add to the mixture the remaining amount of water to achieve the correct flowability. Leave material to stand in container until the majority of air bubbles have dispersed.

APPLICATION

Manual:

Pour the mixed material Sika MonoTop®-632 K onto the primed surface and apply by trowel or pin screed rake to the required thickness. Thoroughly spike roll in two directions to remove any entrapped air.

Pump:

Use a conventional floor screed dual stage mixer and pump and control the water dosage to achieve the following flow, measuring the final average diameter on a flat, clean, dry flow table.
After placing onto the primed surface apply by trowel or pin screed rake to the required thickness. Thoroughly spike roll in two directions to remove any entrapped air.

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

- Freshly applied Sika MonoTop®-632 K must be protected from damp, condensation and water for at least 24 hours.
- Do not exceed the recommended water dosage.
- Do not use for outdoor floors.
- Do not use Sika MonoTop®-632 K in areas where it can be exposed to dampness, such as underground floors without an effective damp proof membrane, or outdoors without suitable watertight overcoating and underside membrane.
- Allow the recommended waiting time between primer application and the application of Sika MonoTop®-632 K.
- Do not apply on flexible or wooden substrates.
- Do not apply with thickness higher than 15 mm.
- Protect from direct sunlight, hot or strong winds and extremes of temperature to avoid cracking or craz-

ing.

- Curing and waiting times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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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