

PRODUCT DATA SHEET

Sika MonoTop®-2500 Fair Finish

Thin rendering, pore sealer and fair finishing mortar for concrete and masonry (Formerly LANKO 113 LANKOPATCH)

DESCRIPTION

Sika MonoTop®-2500 Fair Finish is a 1-part, cementitious polymer modified, low shrinkage mortar for pore filling and providing smooth finishing to concrete and masonry surfaces. It can be applied to provide thin finishes between 0.5 mm and 10 mm. Interior or exterior use.

USES

Sika MonoTop®-2500 Fair Finish is used in horizontal, vertical and overhead areas in building and civil engineering structures for following applications:

- Pore sealer / finishing coat on cementitious substrates
- Filling honeycombed or surface damaged concrete
- Levelling of surface imperfections caused by faulty formwork
- Reprofiling of damaged corners and edges, to form and finish joints and covings
- Fairing coat before application of coatings
- For use in conjunction with the Sika MonoTop® repair system to provide a smooth, even and uniform finish
- Thin layer render coat in construction, for external and internal finishing

CHARACTERISTICS / ADVANTAGES

- Adjustable consistency
- Easy to apply by trowel
- No primer required
- Layer thickness 0.5–10 mm
- Can be applied on overhead applications
- Dust reduced
- Good mechanical strength
- Good substrate adhesion
- Good surface finishing
- Low cracking sensitivity
- Hand and machine application (wet spray technique)
- Very good resistance to water and chloride penetration
- Compatible with Sikagard® protective coating systems
- Ready to mix with water
- Does not contain chlorides or other corrosion promoting additives
- Provides plain, regular surface ideal for decorative wall coverings

PRODUCT INFORMATION

Chemical base	Portland cement, selected aggregates, additives and polymers
Packaging	25 kg bag
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
Appearance / Colour	Grey powder
Maximum grain size	D _{max} : 0.5 mm

TECHNICAL INFORMATION

Compressive strength	≥ 20 N/mm ² (Water : Powder = 0.24, +30 °C)	(EN 196-1)
Flexural strength	≥ 4 N/mm ² (Water : Powder = 0.24, +30 °C)	(EN 196-1)
Tensile adhesion strength	≥ 0.8 N/mm ²	(EN 1542)

APPLICATION INFORMATION

Mixing ratio	Water : Powder = 0.24–0.28 (by weight) or 6–7 L of water per 25 kg bag	
Fresh mortar density	1.6 ± 0.1 kg/L (Water : Powder = 0.26, +30 °C)	(EN ISO 2811-1)
Consumption	~1.3 kg/m ² per mm thickness Consumption depends on the roughness and absorbency of the substrate. This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.	
Layer thickness	Minimum	0.5 mm
	Maximum	10 mm
Ambient air temperature	+5 °C min. / +45 °C max.	
Substrate temperature	+5 °C min. / +45 °C max.	
Pot life	> 60 minutes (100 g mass, +27 °C)	
Waiting time / Overcoating	Minimum 72 hours at +30 °C As a guide, depending on weather conditions overcoat 3 days after application (2 days curing + 1 day drying) with Sikagard® range of protective coatings. For other emulsion paints, refer to the relevant manufacturer's data sheet/ documentation.	

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Substrate preparation

- Mechanical hand held tools
- High / ultra-high pressure water blasting system

Steel reinforcement

- Abrasive blast cleaning system
- High pressure water blasting system

Mixing

- Small quantities - low speed electric single or double paddle mixer (< 500 rpm). Mixing Container.
- Large quantities or machine application - suitable forced action mixer

Application

- Hand applied - Plasterers hawk, trowel, spatula
- Wet Spray - All in one mixing and spraying machine or separate spraying machine and all associated ancillary equipment to suit application volumes

Finishing

- Trowel (Steel, PVC or wooden), sponge

SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate must be thoroughly clean, free from dust, loose material, surface contamination and material which reduce adhesion or prevent suction or wetting by repair materials.
- De-laminated, weak, damaged and deteriorated substrate and where necessary sound substrate must be removed by suitable preparation equipment.
- Ensure sufficient concrete is removed from around corroded reinforcement to allow cleaning, corrosion protection coating (where required) and compaction of the repair material.
- Repair surface areas must be prepared to provide simple square or rectangular layouts to avoid shrinkage stress concentrations and cracking while the repair material cures. This can also avoid structural stress concentrations from thermal movement and loading during the service life.

MIXING

1. Pour the minimum recommended clean water quantity in a suitable mixing container.

2. While stirring slowly using a drill mixer (max. 500 rpm), add the powder to the water and mix thoroughly for at least for 3 minutes adding additional water if necessary to the maximum specified amount and adjust to the required consistency to achieve a smooth consistent mix.
3. Leave the mixture to stand for ~5 minutes to allow release of entrapped air if any during mixing.
4. Mix again for 15 seconds before application. The consistency must be checked after every mix.

IMPORTANT

Do not add extra water or aggregates.

APPLICATION

IMPORTANT

Do not apply to gypsum based substrates.

IMPORTANT

Do not use for structures to be fully submerged in water.

Hand Application

1. Thoroughly pre-wet the prepared substrate (2 hours recommended) 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 must appear a dark matt appearance without shining and surface pores and cavities must not contain water.
2. When manually applying by hand, first make a scratch coat by firmly scraping the mortar over the substrate surface to form a thin layer and fill any pores or cavities in the surface. Ensure the whole surface to be repaired is covered by the scratch coat.
3. The mortar must be applied onto the wet scratch coat between the minimum and maximum layer thicknesses without the formation of voids.

Sprayed Application - Wet Spray

1. The wet mixed Sika MonoTop®-2500 Fair Finish must be placed into the spraying equipment and applied onto the pre-wetted substrate (pre-wet procedure as hand application) between the minimum and maximum layer thicknesses without the formation of voids. Where layers are to be built up, to prevent sagging or slumping, each layer should be allowed to stiffen before applying subsequent layers "wet on wet".

Surface finishing

1. Finishing for all types of application must be carried out to the required surface texture using suitable finishing tools as soon as the mortar has started to stiffen.

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CURING TREATMENT

Protect fresh mortar immediately from premature drying using an appropriate curing method, e.g. curing compound, moist geotextile membrane, polythene sheet, etc. Allow to cure for minimum 3 days before overcoating.

Curing compounds must not be used when they could adversely affect subsequently applied products and systems.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or 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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