

PRODUCT DATA SHEET

Sika MonoTop®-1010 IN

Bonding primer and reinforcement corrosion protection cement based slurry containing recycled waste materials and corrosion inhibitors

DESCRIPTION

Sika MonoTop®-1010 IN is a 1-part, cementitious, polymer modified coating material used as bonding primer and reinforcement corrosion protection. It contains corrosion inhibitors as well as recycled waste materials which leads to a reduced carbon footprint compared to an equivalent performing mortar.

USES

Sika MonoTop®-1010 IN may only be used by experienced professionals.

- Bonding primer as part of a concrete repair system
- Reinforcement corrosion protection as part of a concrete repair system
- Interior and exterior use

CHARACTERISTICS / ADVANTAGES

- Uses recycled waste materials
- Easy to use, just add water
- Good adhesion to concrete and steel
- Good resistance to water and chloride penetration
- Can be applied with a brush or by wet spray technique

PRODUCT INFORMATION

Chemical base	Portland cement, cement replacement, re-dispersible polymer powder, selected aggregates and additives
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

TECHNICAL INFORMATION

Compressive strength	~50 MPa after 28 days	(EN 12190)
Tensile adhesion strength	~2.0 MPa after 28 days	(EN 1542)
Shear Adhesion	Pass	(EN 15184)
Corrosion Test	Pass	(EN 15183)

SYSTEM INFORMATION

System structure	Sika MonoTop®-1010 IN is part of the range of Sika® mortars and comprising of: Bonding Primer / Reinforcement Corrosion Protection Sika MonoTop®-1010 IN Repair Mortar Sika MonoTop®-412 IN Sika MonoTop®-122 F Sika MonoTop®-3250 Thick Mortar Sika MonoTop®-3130 Rapid IN Fire Protection Mortar Sikacrete®-213 F IN Smoothing / levelling mortar Sika MonoTop®-2500 Fair Finish
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APPLICATION INFORMATION

Mixing ratio	Application type	Water : Powder	Quantity of water per bag
	brush application	0.20–0.21	5.00–5.25 L
	spraying application	0.19–0.20	4.75–5.00 L
Fresh mortar density	2.0 ± 0.05 kg/L		(EN ISO 2811-1)
Consumption	Bonding Primer		~1.5–2.0 kg of powder per m ² per 1 mm layer thickness Depends on substrate roughness and thickness of layer applied.
	Reinforcement Corrosion Protection		~2.0 kg of powder per m ² per 1 mm layer 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	Bonding Primer		Sufficient to coat the concrete surface in a thin layer filling pores and voids
	Reinforcement Corrosion Protection		2 mm minimum thickness
Ambient air temperature	+5 °C min. / +30 °C max.		
Substrate temperature	+5 °C min. / +30 °C max.		
Pot life	20 % water (machine applied)		~90 minutes
	21 % water (manual application)		~120 minutes
Waiting time / Overcoating	Apply concrete repair mortar wet on wet onto bonding primer. Apply concrete repair mortar wet on dry onto reinforcement corrosion protection.		

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.

FURTHER DOCUMENTS

- Sika Method Statement: Concrete Repair Using Sika MonoTop® System
- EN 1504-7 - Reinforcement corrosion protection

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

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete

- The concrete must 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 must be removed by suitable means.
- Ensure sufficient concrete is removed from around corroded reinforcement to allow cleaning for corrosion protection (where required) and compaction of the repair material.

Steel reinforcement

- Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion must be removed.
- Surfaces must be prepared using abrasive blast cleaning techniques or high pressure water-blasting to Sa 2 (ISO 8501-1).

MIXING

Important: Do not add water over recommended dosage.

Mix with a low speed (< 500 rpm) electric single or double paddle mixer or by hand for small quantities.

1. Pour the recommended water quantity in a suitable mixing container.
2. While stirring slowly, add the powder to the water and mix thoroughly for at least for 3 minutes.

APPLICATION

Important: Avoid application in direct sun and/or strong wind and/or rain.

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Bonding primer

1. Thoroughly pre-wet the prepared substrate a recommended 2 hours before application. Keep the surface wet and do not allow to dry.
2. Before application remove excess water e.g. with a clean sponge. The surface must appear a dark matt appearance without glistening. Surface pores and voids must not contain water.
3. Using a suitable clean brush, roller or suitable spraying equipment, cover the substrate in a thin layer filling all unevenness, pits and voids.

Reinforcement corrosion protection

1. Using a suitable clean brush or spraying equipment, apply a first coat to cover the reinforcement bars ~1 mm thick.
2. When first coat is finger nail hard, apply a second layer ~1 mm thick.
3. If using a spray method, protect substrate from excessive over-spray. Wait until completely dry before applying repair mortar.

CURING TREATMENT

Reinforcement corrosion protection: protect fresh coating immediately from premature drying and contamination using an appropriate curing method.

CLEANING OF TOOLS

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