

PRODUCT DATA SHEET

Sika MonoTop®-910 N

Bonding primer and reinforcement corrosion protection

DESCRIPTION

Sika MonoTop®-910 N is a cementitious, polymer modified one-component coating material containing silica fume used as bonding primer and reinforcement corrosion protection.

USES

- Suitable for control of anodic areas (Principle 11, method 11.1 of EN 1504-9)
- Suitable as a bonding primer as part of a concrete repair system
- Suitable as reinforcement corrosion protection as part of a concrete repair system

CHARACTERISTICS / ADVANTAGES

- CE certified to EN 1504-7
- Can be applied with a brush or by wet spray technique
- Easy to use just add water
- Adhesion to concrete and steel
- Good resistance to water and chloride penetration

PRODUCT INFORMATION

Composition	Portland cement, silica fume, re-dispersible polymer powder, selected aggregates and additives
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months from the date of production
Storage Conditions	Store properly in undamaged original sealed packaging, in dry cool conditions between +5 °C and +35 °C.
Density	Fresh mortar density ~2.0 kg/l
Soluble Chloride Ion Content	≤ 0.01 % (EN 1015-17)

TECHNICAL INFORMATION

Tensile Adhesion Strength	~2.0 MPa after 28 days (EN 1542)
Shear Adhesion	Pass (EN 15184)
Diffusion Resistance to Water Vapour	~300 μH ₂ O
Diffusion resistance to carbon dioxide	~3 800 μCO ₂

SYSTEM INFORMATION

System Structure

Sika MonoTop®-910 N is part of the range of Sika mortars comprising of:

Bonding Primer / Reinforcement

Corrosion Protection

Sika MonoTop®-910 N	Normal Use
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Repair Mortar

Sika MonoTop®-412 MY, R and 50 R	Concrete Repair Mortars
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Levelling Mortar

Sika MonoTop®-620 MY, -711 MY	Normal use
Sikagard®-720 EpoCem® HC	Demanding requirements

APPLICATION INFORMATION

Mixing Ratio

For brush application ~5.25 litre water (21 %) per 25 kg bag
For spraying application ~5.0 litre water (20 %) per 25 kg bag

Consumption

As Bonding Primer - This depends on the substrate roughness and thickness of layer applied. As a guide, ~1.5–2.0 kg of powder per m² per mm thick.
As Reinforcement Corrosion Protection - As a guide, ~2.0 kg of powder per m² per 1 mm layer thickness

Yield

25 kg of powder yields approximately 14.3 litres

Layer Thickness

As bonding primer - sufficient to coat the concrete surface in a thin layer filling unevenness, pores and pits
As 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

~90–120 minutes at +20 °C

Waiting Time / Overcoating

Apply concrete repair wet on wet with bonding primer
Apply concrete repair wet on dry 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.

IMPORTANT CONSIDERATIONS

- Refer to the Method Statement for Concrete Repair using Sika MonoTop® system for more information or EN 1504-10
- Avoid application in direct sun and/or strong wind and/or rain
- Do not add water over recommended dosage
- Apply only to sound, prepared substrates

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 con-

tains 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, 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) Reference shall be made to EN1504-10 for specific requirements.

MIXING

Sika MonoTop®-910 N can be mixed with a low speed (< 500 rpm) hand drill mixer or by hand for a small quantity,
Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes.

APPLICATION

As Bonding Primer

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. Using a suitably clean brush, roller or suitable spraying equipment cover the substrate in a thin layer filling all unevenness, pits and pores.

As Reinforcement Corrosion Protection

Using a suitably clean brush or spraying equipment apply a first layer to cover the reinforcement bars approximately 1 mm thick. When first coat is hard to the finger nail apply second layer approximately 1 mm thick. If using a spray method protect substrate from excessive over-spray wiping away any concentrated accumulation and wait until completely dry before to apply repair mortar.

CURING TREATMENT

As reinforcement corrosion protection - protect the fresh mortar immediately from premature drying and contamination using an appropriate curing method

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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 Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate,
71800 Nilai, Negeri Sembilan D.K.
Malaysia
Phone: +606-7991762
e-mail: info@my.sika.com
Website: www.sika.com.my



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