

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 for reinforcement. Sika® MonoTop®-910 N meets the requirement of EN 1504-7

USES

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

PRODUCT INFORMATION

Composition	Portland cement, silica fume, re-dispersible polymer powder, selected aggregates and additives
Packaging	5kg pails and 20 kg bags
Appearance / Colour	Grey powder
Shelf life	12 months
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions between +5 °C and +35.
Density	Fresh mortar density ~1.9 kg/l
Soluble chloride ion content	≤ 0.01 % (EN 1015-17)

CHARACTERISTICS / ADVANTAGES

- CE certified to EN 1504-7
- Easy to mix, just add water
- User-friendly application
- Excellent adhesion to concrete and steel
- Good resistance to water and chloride penetration
- Good mechanical strengths
- Can be brushed on or applied using spray gun

APPROVALS / CERTIFICATES

- Qld Roads (TMR) Section 5. Registered and Conforming Products. Part 5.34 Repair Mortars

TECHNICAL INFORMATION

Compressive strength	~50 MPa after 28 days	(AS1478.2:2005)
Tensile adhesion strength	≥ 2.0 MPa after 28 days	(EN 1542)

SYSTEMS

System structure	Sika MonoTop®-910 N is part of the range of Sika mortars complying with the relevant part of European Standard EN 1504 and comprising of:	
	Bonding Primer / Reinforcement Corrosion Protection	
	Sika MonoTop®-910 N	Normal Use
	Repair Mortars	
	Sika Monotop-352 NFG	Class R3 Structural light weight repair mortar
	Sika Monotop-412 NFG	Class R4 Structural repair mortar
	Sika Monotop-612 N	Class R4 Structural high build repair mortar
	Sika Monotop-436 N	Class R4 Structural micro-concrete repair mortar
	Levelling Mortar	
	Sika Monotop-723 N	Pore sealer and levelling mortar

APPLICATION INFORMATION

Mixing ratio	For large volume: 1.0 - 1.1 litres of water per 5 kg pail 4.0 - 4.4 litres of water per 20 kg bag For small volume: 4 part of powder to 1 part of water by volume
Consumption	Bonding Primer: This depends on the substrate roughness and thickness of layer applied. As a guide, ~1.5 – 2.0 kg of powder per m ² per mm thick. Reinforcement Corrosion Protection: As a guide, ~2.0 kg of powder per m ² for 1mm layer thickness (in total min 2 layers)
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 minimum; +30°C maximum
Substrate temperature	+5°C minimum; +30°C maximum
Pot Life	~90 to 120 minutes at +20°C
Initial set time	~ 5.5 hours
Final set time	~ 7.5 hours
Waiting time to 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

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.

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) electric drill mixer. In small quantity, Sika MonoTop®-910 N can also be mixed by volume in a mixing ratio of 4 part of powder by 1 part of water. Pour the water in the correct proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mixed thoroughly to the required consistency (brushable non-dripping consistency).

APPLICATION

As a bonding primer

Apply by brush, roller or suitable spraying equipment to the prepared (pre-wetted) substrate. To achieve good bond, Sika® MonoTop®-910 N must be applied well into the substrate, filling all unevenness. Subsequent repair mortar must be applied while the bonding primer is still wet.

As reinforcement protection

Apply first layer approx. 1.0 mm thick, using medium hard brush or spray gun to cleaned reinforcement. When first coat is hard to the finger nail, for guidance~4 to 5 hours at 20°C, apply second layer approximately 1.0 mm thick.

CURING TREATMENT

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

CLEANING OF EQUIPMENT

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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May 2021, Version 01.02

020302020010000050

SikaMonoTop-910N-en-AU-(05-2021)-1-2.pdf