

PRODUCT DATA SHEET

Sika MonoTop®-1010

Cement-based reinforcement corrosion protection and bonding primer containing recycled raw materials

DESCRIPTION

Sika MonoTop®-1010 is a one-part, cementitious, polymer-modified coating material. It is used as reinforcement corrosion protection and as a bonding primer. It contains corrosion inhibitors and recycled raw materials, resulting in a lower carbon footprint than a comparable mortar of equal performance.

USES

As part of a concrete repair system, Sika MonoTop®-1010 is used as:

- Reinforcement corrosion protection
- Bonding primer on concrete surfaces
- Control of anodic areas (Principle 11, method 11.1 of EN 1504-9), creating conditions in which potentially anodic cathodic areas of reinforcement are unable to take part

Sika MonoTop®-1010 is used for interior and exterior applications.

Please note:

- The Product may only be used by experienced professionals.

FEATURES

- Uses recycled raw materials
- Easy to use, just mix with water
- Good adhesion to concrete and steel

- Good resistance to water and chloride penetration
- Applied with a brush or by wet spray equipment

SUSTAINABILITY

- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4 — 1 point
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Sourcing of Raw Materials under LEED® v4 — 1 point
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4 — 1 point
- LEED Attestation, Sika MonoTop-1010, Eurofins, Test Report No. 392-2025-00352801_H_EN
- Specific Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by BRE Global

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 1504-7:2006 Products and systems for the protection and repair of concrete structures — Reinforcement corrosion protection
- Tensile bond strength after vibrational stress DAFStb guideline, Sika MonoTop-4012, kiwa, Test report No. P 11864-1-E

PRODUCT INFORMATION

Composition	Portland cement, cement replacement, re-dispersible polymer powder, selected aggregates and additives
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Packaging	Standard bag	12 kg plastic pail and 25 kg paper bag
Refer to the current price list for available packaging variations.		
Colour	Grey	
Shelf life	Standard bag	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Soluble chloride ion content	≤ 0.01 %	(EN 1015-17)
Appearance	Powder	

TECHNICAL INFORMATION

Compressive strength	Cured 28 d at +21 °C	50 MPa	(EN 12190)
Tensile adhesion strength	≥ 2.0 MPa		(EN 1542)
Diffusion resistance to water vapour	100 µH ₂ O		(DIN EN ISO 12572)
Corrosion test	Pass		(EN 15183)
Diffusion resistance to carbon dioxide	1200 µCO ₂		(EN 1062-6)

APPLICATION INFORMATION

Mixing ratio	Machine-applied	5.0 L per 25 kg bag (20 % water addition)
	Brush-applied	5.25 L per 25 kg bag (21 % water addition)
Consumption		
	AS REINFORCEMENT CORROSION PROTECTION For a total layer thickness of 2 mm, in two layers of 1 mm thickness each:	
	Rebar diameter	Amount of powder per metre
	8 mm	100 g/m (50 g/m per layer)
	16 mm	200 g/m (100 g/m per layer)
AS BONDING PRIMER ON MINERAL SURFACES 1.5–2.0 kg powder per m ² and mm layer thickness, depending on substrate conditions		
	Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Yield	14.3 L of mortar per 25 kg bag	
	Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Layer thickness	Reinforcement corrosion protection Bonding primer	Minimum 2 mm Sufficient to coat the concrete surface in a thin layer, filling pores and voids

Material temperature	Maximum	+30 °C	
	Minimum	+5 °C	
Ambient air temperature	Maximum	+30 °C	
	Minimum	+5 °C	
Substrate temperature	Maximum	+30 °C	
	Minimum	+5 °C	
Pot Life	Application	Water addition	Time at +20 °C
	Machine applied	20 %	90 minutes
	Brush applied	21 %	120 minutes
Waiting time to overcoating	Apply concrete repair mortar wet on wet onto bonding primer. Apply concrete repair mortar wet on dry onto reinforcement corrosion protection.		
Fresh mortar density	2.0 kg/l	(EN 1015-6)	

SYSTEM INFORMATION

System structure	Sika MonoTop®-1010 is a reinforcement corrosion protection primer in accordance with EN 1504-7 as part of the Sika® repair system. It is the first component of the system, followed by the application of Sika MonoTop® or SikaEmaco® concrete repair mortars.
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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.

FURTHER DOCUMENTATION

- Concrete repair site handbook
- Sika Method Statement 850 32 01 Concrete Repair

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 PREPARATION

CONCRETE

1. Clean the substrate thoroughly so it is free from dust, loose material, surface contamination and material which reduces adhesion, prevents suction or wetting by the repair materials.
2. Remove delaminated, weak, damaged and deteriorated concrete and where necessary, sound concrete. Remove using mechanical hand-held tools, high or ultra-high-pressure water blasting equipment.
3. Remove sufficient concrete from around corroded reinforcement to allow cleaning, application of a corrosion protection coating (where required) and com-

4. Prepare repair surface areas in 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.

STEEL REINFORCEMENT

1. Remove rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion.
2. Prepare surfaces to bright steel, Sa 2 (ISO 8501-1), using abrasive blast cleaning or high-pressure water blasting equipment.

PRE-WETTING

Sufficient saturation of the concrete substrate prior to application enables the mortar to gain its full mechanical properties.

1. Thoroughly pre-wet the prepared concrete substrate for a minimum of 2 hours before application.
2. Keep the surface wet and do not allow to dry.
3. The final pre-wetted surface must achieve a dark matt appearance (saturated surface dry).

MIXING

1. Pour the minimum specified quantity of clean water into the mixing vessel.
2. Gradually add the powder to the water while stirring slowly.
3. Mix for at least for 3 minutes until a uniform, lump-free consistency is achieved.
4. If necessary, add small amounts of water, within the allowed range, to adjust consistency. Do not exceed the maximum water content.
5. Check the consistency after every mix.

APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

IMPORTANT

Risk of cracking due to application in direct sun or strong winds

1. Do not apply the Product in direct sun, strong winds or both.

REINFORCEMENT CORROSION PROTECTION

Preconditions

If using spray equipment, the substrate has been protected from overspray.

1. Use a clean brush or spraying equipment to apply a first coat 1 mm thick to cover the reinforcement bars.
2. When the first coat is finger nail hard, apply a second coat 1 mm thick.
3. Wait until completely dry before applying repair mortar.

BONDING PRIMER

1. Remove excess water from within the surface pores and cavities with a clean sponge.
2. Use a brush, roller or spray equipment to apply the Product over the complete substrate surface to form a thin layer to fill surface pores or cavities.
3. Apply the subsequent layer of repair mortar wet on wet.

CURING TREATMENT

- Cure immediately after finishing using an appropriate curing method, such as curing compound, moist geotextile membrane or polythene sheet.
- Do not use curing compounds if they could adversely affect subsequently applied products and systems.
- Protect from wind, rain, frost, and direct sunlight during curing.

CLEANING OF EQUIPMENT

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

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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