

PRODUCT DATA SHEET

Sika MonoTop®-1010 ZA

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

DESCRIPTION

Sika MonoTop®-1010 ZA 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 ZA is used as:

- Reinforcement corrosion protection
- Bonding primer on concrete surfaces
- Control of anodic areas (Principle 11, method 11.1 of EN 1504-9), by treating the surface of the reinforcement to prevent corrosion

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

Please note:

- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- 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

PRODUCT INFORMATION

Chemical Base	Portland cement, cement replacement, re-dispersible polymer powder, selected aggregates and additives
Packaging	20 kg bag
Appearance / Colour	Grey powder
Shelf Life	12 months from date of production
Storage Conditions	Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.
Maximum Grain Size	D _{max} : 0.5 mm

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)
Equivalent Air Layer Thickness for Water Vapour	SD=0.679		
Corrosion Test	Pass		(EN 15183)
Diffusion resistance to carbon dioxide	1200 µCO ₂		(EN 1062-6)

APPLICATION INFORMATION

Mixing Ratio	For brush application For spraying application	~4,2 L water (21 %) per 20 kg bag ~4,0 L water (20 %) per 20 kg bag	
Consumption	Bonding Primer Reinforcement Corrosion Protection 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.	~1,5–2,0 kg of powder per m² per 1 mm layer thickness Depends on substrate roughness and thickness of layer applied. ~2,0 kg of powder per m² per 1 mm layer thickness	
Yield	~11.4 L per 20 kg of powder		
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	Application	Water addition	Time at +20 °C
	Machine applied	20 %	90 minutes
	Brush applied	21 %	120 minutes
Waiting Time / Overcoating	~90 minutes for 20 % water (machine applied) ~120 minutes for 21 % water (manual application)		
Fresh mortar density	~2,0 kg/l		

SYSTEM INFORMATION

System Structure	Sika MonoTop®-1010 ZA is part of the range of Sika Mortars and comprising of: Bonding Primer/ Reinforcement Corrosion Protection Sika MonoTop®-1010 ZA Reduced carbon footprint Repair Mortar Sika MonoTop®-4012 ZA Reduced carbon footprint Smoothing/ levelling mortar Sika MonoTop®-3020 ZA Reduced carbon footprint		
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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

LIMITATIONS

- Avoid application in direct sun and/or strong wind and/or rain.
- Do not add water over recommended dosage.
- Apply only to stable, prepared substrates.

ECOLOGY HEALTH AND SAFETY

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 compaction of the concrete repair mortar.
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 of Sika MonoTop®-1010 1 mm thick to cover the reinforcement bars.
2. When the first coat is fingernail-hard, apply a second coat of Sika MonoTop®-1010 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 a thin layer of Sika MonoTop®-1010 over the complete substrate surface to fill surface pores or cavities.
3. Apply the subsequent layer of repair mortar wet on wet.

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

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.

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