

PRODUCT DATA SHEET

Sika MonoTop®-603 NEW

Fibre-reinforced repair mortar for the Sika MonoTop®-600 NEW-System

DESCRIPTION

Sika MonoTop®-603 NEW is a 1-component cement mortar dry mixture with coordinated grading curve, fibre-reinforced with polymer additives.

Sika MonoTop®-603 NEW is low in chromate according to TRGS 613.

USES

Can be used as PCC / RM in concrete repair and as repair and anode embedding mortar in cathodic corrosion protection of reinforced concrete.

Permissible exposure classes:
X0 / XC1-4 / XD 1-3 / XS 1-3 / XF 1-4

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf life	9 months from date of production.
Storage conditions	The product should be stored properly in original unopened, sealed and undamaged packaging in dry conditions.
Maximum grain size	2 mm
Density	~2.13 kg/l (fresh mortar)

CHARACTERISTICS / ADVANTAGES

- Corresponds to stress classes M2 and M3 according to DAfStb guideline
- Simple and easy processing application
- Very well suited for "overhead" work
- Only water addition required
- Fibre-reinforced
- Fire behaviour in A2,s1-d0 according to DIN EN 13501-1
- Repair and anode embedding mortar for cathodic corrosion protection (KKS)

APPROVALS / CERTIFICATES

- CE marking according to EN 1504-3: Class R4

TECHNICAL INFORMATION

Compressive strength	after 7 days: 46.0 N/mm ² (storage B) after 28 days: 54.4 N/mm ² (storage B)
	The specified technical characteristics are taken from the test report. For external monitoring, the technical characteristics values specified in abP apply.
Tensile strength in flexure	after 7 days: 8.1 N/mm ² (storage B) after 28 days: 12.8 N/mm ² (storage B)
	The specified technical characteristics are taken from the test report. For external monitoring, the technical characteristics values specified in abP apply.

SYSTEM INFORMATION

System structure	Sika MonoTop®-600 NEW-System consisting of: <ul style="list-style-type: none">▪ Corrosion protection: Sika MonoTop®-601 NEW▪ Bonding bridge: Sika MonoTop®-602 NEW▪ Repair mortar: Sika MonoTop®-603 NEW▪ Levelling mortar: Sika MonoTop®-622
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APPLICATION INFORMATION

Mixing ratio	3.0 litres of water per 25 kg bag Sika MonoTop®-603 NEW : water = 100 : 12 (by weight)						
Consumption	2.03 kg/m ² /mm						
Layer thickness	5-20 mm						
Ambient air temperature	Minimum +5 °C Maximum +30 °C						
Substrate temperature	Minimum +5 °C Maximum +30 °C						
Application time	<table><thead><tr><th>+5 °C</th><th>+20 °C</th><th>+30 °C</th></tr></thead><tbody><tr><td>~ 90 minutes</td><td>~ 45 minutes</td><td>~ 30 minutes</td></tr></tbody></table>	+5 °C	+20 °C	+30 °C	~ 90 minutes	~ 45 minutes	~ 30 minutes
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~ 90 minutes	~ 45 minutes	~ 30 minutes					
	By stirring without adding water, the original consistency can be restored within the specified processing time. Do not further process with water and do not powder with cement!						
Waiting time to overcoating	<table><thead><tr><th>bonding primer/repair mortar</th><th>wet in wet</th></tr></thead><tbody><tr><td>repair mortar (1 st layer/2 nd layer)</td><td>24 hours</td></tr><tr><td>repair mortar/levelling mortar</td><td>24 hours</td></tr></tbody></table>	bonding primer/repair mortar	wet in wet	repair mortar (1 st layer/2 nd layer)	24 hours	repair mortar/levelling mortar	24 hours
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repair mortar/levelling mortar	24 hours						

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.

ECOLOGY, HEALTH AND SAFETY

CE-MARKING:

See the Declaration of Performance

GISCODE: ZP 1

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

The substrate preparation must comply with the relevant technical standards. The concrete surface must be solid, free of loose and sanding parts, dust and dirt. Paint residues and residues of stripping agents, especially those containing oil and wax, as well as cement slurry adhering to the surface must be removed. The concrete surface shall be prepared by compressed air blasting with solid abrasive or high-pressure water jetting (from 400 bar) until tear-off strengths ≥ 1.5 N/mm² are achieved. The concrete surface must be matt damp during application, therefore pre-wetting is necessary before applying Sika MonoTop®-602 NEW bonding mortar. Thoroughly pre-wet heavily dried concrete on the previous day.

MIXING

Mortars must be mixed with water in the specified mixing ratio. Do not add any admixtures or other aggregates. First add about 90 % of the maximum water consumption into a suitable clean mixing container. While stirring continuously dry mortar is added into the water. The remaining amount of 10 % may be required for consistency adjustment. Stir at least for 3 minutes until a lump-free and homogeneous consistency has been achieved. Low speed mortar mixer or compulsory mixer are required.

After mixing, a maturing time of approx. 5 minimum must be observed before further processing. Then the mortar is mixed again briefly.

APPLICATION

The Sika MonoTop®-602® NEW bonding primer has to be brushed under pressure into the matt damp blow-out spot, whereby as much material as possible must remain. Apply the repair mortar wet-in-wet into the still fresh bonding primer and compact well. Cavities must be avoided. The maximum layer thickness of 20 mm per working process must not be exceeded. If necessary, apply the repair mortar in several layers, always in combination with adhesive mortar. Place the repair mortar with float board and not with steel or plastic trowel.

If necessary Sika MonoTop®-603 NEW repair mortar has to be applied in 2 or 3 steps. Between every step use Sika MonoTop®-602® NEW as bonding primer.

CURING TREATMENT

Avoid quick drying, e.g. through sun or wind; observe instructions for follow-up treatment of mortars. Freshly applied surfaces should be kept damp by covering with canvas or polymer sheets, respectively sprinkling with water. The method and duration of curing must comply with the relevant technical standards. We recommend 3 days (minimum).

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured 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 the 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

PRODUCT DATA SHEET

Sika MonoTop®-603 NEW

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will be supplied on request.

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