Sika MonoTop®-650 R

PATCHING AND REPAIR MORTAR FOR SACRIFICIAL ANODES COVERING

DESCRIPTION

Sika MonoTop®-650 R is a cementitious, silica fume, one-component repair mortar for sacrificial anodes covering.
Suitable for use in hot and tropical climatic conditions.

USES

Sika MonoTop®-650 R can be used for cosmetic or structural repair of concrete after sacrificial anode installation in existing concrete structures.

CHARACTERISTICS / ADVANTAGES

- Easy to mix, apply and finish
- Low electrical surface resistivity
- Good adhesion
- Shrinkage compensated
- Compatible with the properties of typical concretes
- Low water absorption, but vapour permeable
- Non corrosive, non-toxic
- Excellent chloride and carbonation resistance

PRODUCT INFORMATION

Composition	Cementitious mortar with different additives
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf life	12 months minimum from production
Storage conditions	Store in a dry area in original sealed packaging at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
Maximum grain size	~1.7 mm

TECHNICAL INFORMATION

Compressive strength	~50 N/mm² (w/p = 0.15)	(ASTM C109)
Tensile adhesion strength	> 1.5 N/mm² (concrete failure)	(BS 1881 Part 208)
Electrical resistivity	< 35 KΩ-cm	(AASTHO TP 95)

APPLICATION INFORMATION

Mixing ratio	3.75 - 4.25 L of water per 25 kg bag
Fresh mortar density	~2.25 kg/l (25 °C)
Yield	~12.8 L per 25 kg bag

Layer thickness	Min. 5 mm per layer
	Max. 30 mm per layer
Ambient air temperature	+5 °C min / +40 °C max
Substrate temperature	+5 °C min / +40 °C max
Pot Life	~45 min

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces should be clean, rough, sound and free from oil, grease, cement laitance and all loosely adhering particles.
Absorbent surfaces should be saturated thoroughly with clean water.

BONDING AGENT AND STEEL PROTECTION

Embedded steel reinforcing should be free from scale, rust, oil and grease, and treated with a suitable anticorrosion coating such as SikaTop® Armatec®-110 Epo-Cem®. Do not apply anticorrosion coating in areas where anodes are connected with steel.
The application of a suitable bonding agent, such as Sikadur®-32 LP or SikaTop® Armatec®-110 EpoCem®, will improve adhesion on large areas or where particularly dense concrete substrates are involved.

MIXING

Add water according to the desired consistency into a clean mixing vessel before slowly adding the Sika MonoTop®-650 R powder. Sika MonoTop®-650 R is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, not longer than 5 minutes. Slow speed drill (maximum 500 rpm) can be also used for mixing. Normal tumble type concrete mixers are not suitable. Do not mix more mortar than can be placed within 15 to 20 minutes. Do not add extra water or other ingredients.
Mix only full bags for the best result.

APPLICATION

Apply Sika MonoTop®-650 R while the bonding agent is still wet. The mortar can be applied by spatula or trowel.
For any thickness greater than 30 mm, Sika Mono-Top®-650 R must be applied in several layers.
As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, styrofoam block or sponge. For fine surface finish of Sika Mono-Top®-650 R, Sika®Rep Fine-PC® can be applied over the Sika MonoTop®-650 R.

CLEANING OF EQUIPMENT

Application and mixing tools should be cleaned with water while the material is still fresh. Hardened material can only be removed mechanically.

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.

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.

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.

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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.

ISO 9001: Sika UAE LLC, Sika Gulf B.S.C. (c), Sika Saudi Arabia Co. Ltd, Sika Qatar LLC
ISO 14001: Sika UAE LLC, Sika Gulf B.S.C. (c), Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC, Sika Gulf B.S.C. (c)

ISO 9001 · ISO 14001
OHSAS 18001

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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