

## PRODUCT DATA SHEET

# Sika MonoTop<sup>®</sup>-166 Migrating

## CEMENTITIOUS WATERPROOFING BY CRYSTALLISATION

### DESCRIPTION

One part cementitious waterproofing slurry modified with selected aggregates and active chemicals. The slurry will migrate in the concrete pore to prevent the penetration of water to all types of concrete structures.

### USES

- Main use : underground floor before pouring fresh concrete.
- Interior/Exterior.
- Underground car park, basement.
- Substrates: concrete, mortar.

### CHARACTERISTICS / ADVANTAGES

- Migration of active components and crystalline formation to seal capillary network.
- Resistance to positive and negative water pressure.
- One component system requiring only the addition of clean water.

### PRODUCT INFORMATION

Chemical base	Hydraulic cement, additives and mineral filler
Packaging	25 kg bag
Shelf life	6 months from date of production
Storage conditions	Store in unopened original packaging in dry condition.
Appearance / Colour	Powder/ Grey
Density	0.9 - 1.1 kg/l

### TECHNICAL INFORMATION

Tensile Adhesion Strength	> 0.5 MPa
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### APPLICATION INFORMATION

Định mức	<ul style="list-style-type: none"><li>▪ 2 kg /m<sup>2</sup> - Wet application method</li><li>▪ 3 - 3.5 kg /m<sup>2</sup> - Dry shake application method (Negative waterproofing)</li><li>▪ 2 kg /m<sup>2</sup> - Dry shake application method (Positive waterproofing)</li></ul>
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Pot Life

Waiting Time / Overcoating

## 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 CONSIDERATION

- Sika MonoTop®-166 Migrating is not suitable as ad-ecorative treatment.
- Sika MonoTop®-166 Migrating does not form a flexible coating and might crack under the subject of movement.
- Temperature range for use from +5 °C to +35 °C. Do not apply Sika MonoTop®-166 Migrating at temperatures below +5 °C.
- Do not add water over recommended dosage.
- Avoid any stagnant water presence or condensation /ponding on the surfaces before application.
- Protect freshly applied material from freezing and drain at least during the curing time.
- Avoid application in direct sun and/or strong wind and heavy rain.

## 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 surface must be clean and free from laitance, oils, grease, curing agents or other foreign matters.
- If surface is too smooth or highly contaminated with foreign particles, sand blast, acid etch surface before treatment.
- Rout out visible cracks exceeding 0.4 mm wide, honey combed pockets to depth of 40 mm and width of 25 mm. Mix three parts of Sika MonoTop®-166 Migrating to one part water by weight, until stiff mortar consistency is achieved.
- Sika MonoTop®-166 Migrating must be applied on damp surface substrate only to ensure maximum chemical penetration.
- Prime concrete surface with one slurry coat of Sika MonoTop®-166 Migrating before applying the mortar mix onto area to be patched, tightly sealing cavity.
- If concrete surfaces dries out before application. It must be re-wetted.

## MIXING

### For Wet Application Method:

- Mix with power drill one 25 kg bag with 7.25 to 7.75 litres of clean water until the product is evenly distributed.
- Use mixing machine mix at low speed not over than 500 RPM.
- Mixing time: at least 3 minutes or required consistency is obtained.
- Leave the mixture to stand for 1 - 3 minutes.
- Do not add water after mixing.

## APPLICATION

### Wet application method

- Apply 1st coat by brush, float or pump at a rate of 1 kg /m<sup>2</sup>
- Allow a sufficient drying time so that it is not drawn off while applying the 2nd coat. Apply 2nd coat, crosswise at a rate of 1 kg /m<sup>2</sup>.

### Dry shake application method (Negative waterproofing)

- Spread powder of Sika MonoTop®-166 Migrating evenly onto the concrete after allowing fresh concrete to achieve initial set at the rate 3 - 3.5 kg /m<sup>2</sup>. Then, Trowel the surface for smooth finish.

### Dry shake application method (Positive waterproofing)

- Spread powder of Sika MonoTop®-166 Migrating evenly onto the lean substrate before pouring the fresh concrete at the rate 2 kg /m<sup>2</sup>.

## CURING TREATMENT

- After Sika MonoTop®-166 Migrating coating has hardened, cure the treated surface with a light mist of clean water at regular intervals three times a day for initial two to three days.
- In extremely hot weather curing period may have to be extended to several days.
- On external areas are subjected to heavy rain or harsh sunlight. The finished application should be protected for at least 24 hours.

## CLEANING OF TOOLS

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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### Product Data Sheet

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