

PRODUCT DATA SHEET

SikaSeal[®]-250 Migrating

CEMENTITIOUS CRYSTALLISATION CONCRETE WATERPROOFING SLURRY

DESCRIPTION

SikaSeal[®]-250 Migrating is a 1-part, cementitious waterproofing slurry modified with selected aggregates and active chemicals. The active components migrate within the concrete pore and capillary network and react with the available moisture and free lime to form a non-soluble crystalline structure within the network. The slurry can be applied by brush or spray and provides a waterproof layer to prevent the penetration of water to all types of concrete structures. Suitable for use in hot and tropical climatic conditions.

USES

- Waterproofing structures such as basements, retaining walls, lift pits, etc.
- Waterproofing concrete elements
- Positive and negative waterproofing

CHARACTERISTICS / ADVANTAGES

- Migration of active components and crystalline formation to seal capillary network
- 1-part system, only needs addition of water
- Slurry consistency for easy and fast application by brush or low pressure spray method
- For positive and negative waterproofing
- Excellent adhesion to concrete
- Water vapour permeable
- Application on concrete and repair mortars

PRODUCT INFORMATION

Composition	Cement based, selected aggregates and active chemicals
Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf life	12 months from date of production
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
Maximum Grain Size	~0.3 mm

TECHNICAL INFORMATION

Tensile Adhesion Strength	~1.5 N/mm ² (Concrete failure)	(ASTM D4541)
Water Penetration under Pressure	Nil (5 bar positive water pressure)	(DIN 1048)

APPLICATION INFORMATION

Mixing Ratio	~7 L of water for 25 kg of powder
Fresh Mortar Density	~2.0 kg/l
Consumption	~2 kg/m ² /mm This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage, etc.
Layer Thickness	≥ 1.0 mm (in two layers)
Ambient Air Temperature	+10 °C min. / +35 °C max.
Substrate Temperature	+10 °C min. / +35 °C max.
Pot Life	~30 min (+23 °C)
Waiting Time / Overcoating	Apply 2 nd layer while 1 st layer is still fresh (wet on wet, 1–2 hours at 20 °C)

APPLICATION INSTRUCTIONS

EQUIPMENT

Substrate preparation

- Mechanical or very high pressure water blasting

Mixing

- Low speed (< 500 rpm) hand drill mixer
- Mixing container

Application

- Hand applied - slurry brush
- Wet spray - low pressure spraying machine

Curing

- Water spray equipment, moist geotextile membrane, polyethylene sheet

SUBSTRATE QUALITY / PRE-TREATMENT

All connections between the substrate and pipe entries, plant and equipment, light switches etc., must be sealed and made watertight before applying SikaSeal®-250 Migrating. Any joints which are present in the structure must also be sealed and made watertight.

The concrete substrate shall be thoroughly clean, free from dust, loose material, surface contamination, cement laitance and material which reduce adhesion or prevent suction or wetting by the slurry coating. Surfaces should be prepared by acceptable preparation equipment to an open texture to achieve the required adhesion value for the waterproofing system.

MIXING

Pour the minimum recommended clean water quantity in a suitable mixing container. While stirring slowly, add the full bag of powder continuously to the water. Once a consistent mix has been achieved, continue mixing for 3 minutes. The consistency must be checked after every mix.

APPLICATION

Thoroughly saturate the prepared substrate before application with clean water to achieve a saturated surface dry (SSD) surface. Before application remove excess water, e.g. with a clean sponge.

General

SikaSeal®-250 Migrating must be applied to the full surface area at the required layer thickness.

Hand Application

Apply mixed material onto the prepared pre-wet substrate by suitable slurry brush by working the slurry well into the substrate and without the formation of voids. A 2nd layer should be applied 'wet on wet' after allowing 1st layer to slightly stiffen to ensure full coverage of the surface and avoid 'pin-holes'.

Sprayed Application - Wet Spray

The wet mixed SikaSeal®-250 Migrating shall be placed into the spraying equipment and applied onto the prepared pre-wet substrate. A 2nd layer should be applied 'wet on wet' after allowing 1st layer to slightly stiffen to ensure full coverage of the surface and avoid 'pin-holes'.

CURING TREATMENT

Protect fresh mortar immediately from premature drying using an appropriate curing method, e.g. water spray, moist geotextile membrane, polyethylene sheet, etc. Cure at least for 5 days after application.

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

- Do not add water over recommended dosage.
- Protect freshly applied material from freezing and rain at least during the curing time.
- Avoid application in direct sun and/or strong wind.
- Do not apply SikaSeal®-250 Migrating temperatures below +10 °C.
- Avoid any stagnant water presence or condensation / ponding on the surfaces before application.
- SikaSeal®-250 Migrating is not suitable as a decorative treatment.
- SikaSeal®-250 Migrating does not form a flexible coating and might crack under the subject of movement.

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.

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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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.

Product Data Sheet

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