BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-209 EG

FLEXIBLE WATERPROOFING MORTAR

DESCRIPTION

SikaTop®-209 ES is a 2 component flexible waterproofing mortar, cement based, with selected aggregates and modified polymers.

USES

It can be used for waterproofing and protection of surfaces where flexibility is required in order to bridge small cracks.
Some of the most common places where it can be used are:

- Tanks, swimming pools, canals or other elements intended to contain water, whether buried or not
- Interior waterproofing of basements
- External waterproofing of underground walls Repair and protection of surfaces exposed to the action of frost and dicing salts: bridges, terraces and roof overhangs, cornices, etc.
- Protection of concrete surfaces in marine environments
- Waterproofing in contact with drinking water

CHARACTERISTICS / ADVANTAGES

- Low modulus of elasticity, thus achieving good flexibility, reducing the risk of cracking and improving the ability to bridge shrinkage cracks and microcracks
- Waterproof and water vapour permeable
- Withstands both positive and negative pressure
- Predosed
- Excellent adhesion on healthy substrates including concrete, cement mortars, stone, bricks, etc.
- High resistance to de-icing salts and freeze-thaw attack
- Stops the progression of carbonation ▪ Good crack bridging properties
- Approved for contact with drinking water

APPROVALS / CERTIFICATES

- Product for protection against penetration, humidity control and increased resistivity for concrete structures according to UNE-EN 1504-2:2004 with CE-marking and Declaration of Performance 01 07 01 01 002 0 000007 1053, with certificate of factory production control according to the notifier body No. 0099-CPR-B15-0007.
- Product suitable for contact with drinking water, which meets the requirements of global migrations within the limits indicated in the Regulation 10/2011, according to a test carried out in Instituto Tecnológico del Plástico AIMPLAS
- Waterproof product based on cementituous mortar applied under tiling, class CMO2P, according to UNEEN 14891:2017

PRODUCT INFORMATION

Composition	Improved cement mortar with synthetic resins
Packaging	Pre-weighed batch of 32 kg (8 kg of comp. A and 24 kg of comp. B)
Appearance / Colour	Component A: White liquid Component B: Grey powder
Shelf life	12 months from date of production if stored properly in undamaged and unopened original sealed packaging in dry and cool conditions.
Storage conditions	Store in dry conditions, protected from moisture and frost.
Density	1. 62 kg/l
Compressive strength	30 N/mm² after 28 days
Tensile strength in flexure	12 N/mm² after 28 days
Mixing ratio	Comp. A : 1,0 (by weight) Comp. B : 3 (by weight)
Consumption	1,62 kg/m²/mm. Depending on the roughness of the substrate.
Layer thickness	Min. 1 mm / Max. 2 mm
Ambient air temperature	Min +8 °C/ Max. +35 °C
Substrate temperature	Min +8 °C/ Max. +35 °C
Pot Life	~ 30-40 minutes (at +20 °C)

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 CONSIDERATIONS

- Time for immersion in water: 7 days at 20 °C
- Handling is similar to a cement base mortar For an effectively work of the product, apply at least 2 layers with a minimum thickness of approx. 2 mm
- Do not apply the second layer until the first layer begins to set (approx. 4 - 6 h at 20 °C)
- The finish can be performed by trowelling
- Do not add water to SikaTop®-209 ES

ECOLOGY, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, clean, free of grease, oil, friable parts, laitance, and have a minimum resistance of 1 N/mm2. In case of irregularities in the substrate, it should be first regularized with Sika Rep.
Absorbent substrates should be previously dampened until saturation avoiding flooding and beginning to apply SikaTop®-209 EG when the surfaces acquire a matt appearance.

MIXING

Mixing shall be carried out preferably using a low speed (600 rpm) electric mixer.
For this purpose, in a wide mouth and bottom container, pour component B (powder) over component A and mix for 2-3 minutes until a homogeneous mass is obtained.

APPLICATION

The application can be done by trowel, brush, long hair roller or by spraying. The projection equipment will be of type Wagner PC 5, Turbosol T6, Putzmeister gun, etc. The SikaTop®-209 EG can be installed with or without reinforcement.
Without reinforcement:
If a notched trowel is used, with teeth of 3-4 mm, the first layer is applied with the toothed edge and the second with the plain edge, following the direction of the grooves.
The second layer of mortar should be applied when the first has hardened sufficiently (4 to 6 hours at 20 °C).
If a brush, roller or spray is used for the application, apply two coats waiting for the first to harden before applying the second.
SikaTop®-209 EG will extend as evenly as possible, avoiding accumulating material in corners, cavities or slits where cracks may appear.

With reinforcement:
SikaTop®-209 EG coatings armed with Sika fiber glass 107, an anti-alkaline fiberglass mesh, are capable of absorbing certain movements that may occur in the element on which they are applied, as well as acting as

a bridge in the event that the support presents shrinkage cracks. The reinforcement must be carefully placed, avoiding any air occlusion due to the formation of folds or bags in the fiberglass mesh. The fiberglass mesh is joined by overlapping with a width between 3 and 5 cm.
The amount of SikaTop®-209 EG to be applied must be the necessary amount to cover the entire reinforcement.

CURING TREATMENT

Measures should be taken to prevent the SikaTop®-209 EG from drying out too quickly by using polyethylene sheets, wet sackcloths or Sika® Antisol® E curing agent.

CLEANING OF EQUIPMENT

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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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