

PRODUCT DATA SHEET

SikaTop®-130 Flex KE

Flexible waterproofing mortar

DESCRIPTION

SikaTop®-130 Flex KE 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 deicing 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, humid-

ity control and increased resistivity for concrete structures according to UNE-EN 1504-2:2004 with CEmarking and Declaration of Performance 01 07 0101002 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 cementitious 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 20 kg (5 kg of comp. A and 15 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	Liquid component must be protected from frost.
Density	Fresh mortar density: ~ 1.70 kg/l (at +25°C)
Maximum grain size	0.4 mm
Permeability to water vapour	Class I (permeable to water vapour): $S_d < 5m$
Capillary absorption	~0,02 kg/m ² ·h ^{0.5} (EN 1602-3)
Water penetration under pressure	No penetration after 7 days at 1.5 bar (EN 14891 A.7) * Values obtained with 2 layers of 2mm each one
Mixing ratio	Predosed batches A:B = 1:3 (by weight)
Consumption	~1.7 kg/m ² /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

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.

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

- 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 a suitable mortar such as the SikaMonotop® range.
- Absorbent substrates should be previously dampened until saturation avoiding flooding and beginning to apply SikaTop®-130 Flex KE 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®-130 Flex KE 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 25 °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®-130 Flex KE will extend as evenly as possible, avoiding accumulating material in corners, cavities or slits where cracks may appear.

With reinforcement:

- SikaTop®-130 Flex KE coatings armed with ArmaTop®-100, 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®-130 Flex KE to be applied must be the necessary amount to cover the entire reinforcement.

CURING TREATMENT

Measures should be taken to prevent the SikaTop®-130 Flex KE 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 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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