BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-105 Seal KE

Multi-Purpose Waterproofing Slurry

DESCRIPTION

SikaTop®-105 Seal KE is a cement based, polymer modified, 2- component, multipurpose waterproofing slurry. SikaTop®-105 Seal KE combines a crystallization action and pore blocking effect with the excellent waterproofing ability of special polymers, fillers, and properly graded aggregates. Suitable for use in tropical and hot climatic conditions. It is a rigid waterproofing cementitious product.

USES

SikaTop®-105 Seal KE is used as an economical and easy to use waterproofing slurry both for external and internal applications. SikaTop®-105 Seal KE is suitable for the following applications:

- Concrete water works such as manholes
- Balconies, bathrooms etc.
- Interior and exterior waterproofing and damp-proofing of concrete, brickwork and blockwork
- Waterproofing of basement and cellars

SikaTop®-105 Seal KE can be used against positive and negative water pressure.

CHARACTERISTICS / ADVANTAGES

SikaTop®-105 Seal KE is part of a complete Sika System for the economical water proofing of water containment structures. SikaTop®-105 Seal KE offers the following advantages:

- Pre-batched components (no water added)
- Impermeable
- Brush, trowel or spray applied.
- Good adhesion to sound substrates

PRODUCT INFORMATION

Composition	Cement, selected graded aggregates and polymer dispersion
Packaging	25 kg units (5 kg pails of component A and 20 kg bags of component B)

Appearance / Colour	Component A: White liquid Component B: Grey powder
Shelf life	
Storage conditions	
Density	~2.00 kg/l at 25°C (fresh mortar)
Maximum grain size	0.6mm
Compressive strength	>30 N/mm² (28 days) (EN 196)
Tensile strength in flexure	~7.6 N/mm² (28 days) (EN 196)
Mixing ratio	Used as slurry, A : B 1 : 4 by weight Used as mortar, A : B 1 : 4.5 by weight
Consumption	Consumption depends on substrate roughness, surface profile, wastage etc. For water retaining structures, use total of 4.0 – 8.0 kg/m²/mm of SikaTop®-105 Seal KE depending on water head. Apply a minimum of two coats. For damp proofing, use a minimum of 2.0 kg/m²/mm.
Layer thickness	1 mm min. / 2 mm max. per coat
Ambient air temperature	+5 °C min. / +40 °C max
Substrate temperature	+5 °C min. / +40 °C max
Pot Life	~60 min at 25°C
Waiting time to overcoating	Approximately 3- 4 hours maximum at 25°C before applying subsequent coats. 5 to 7 days approximately (depending on thickness) before painting with compatible decorative coatings.

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

Avoid application in direct sun and/or strong wind. Protect from rain and other forms of moisture and liquids until cured as 'blooming' might result. SikaTop®-105 Seal KE is not designed as an aesthetic coating. Do not add water under any circumstances. Apply only to sound, prepared, pre-dampened substrates

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.

SUBSTRATE QUALITY / PRE-TREATMENT

Surfaces must be clean, sound, free from grease, oil and loosely adhering particles. The substrate must have a pull-off strength (tensile adhesive) of at least 1.0 N/mm². Use suitable mechanical methods such as abrasive blast cleaning, high pressure water jetting (minimum 150 bar), scabbling or needle guning. New or smooth faced concrete surfaces should be sand-blasted. All surfaces must be as true and flat as possible. Blowholes and irregularities should be filled with suitable SikaTop® / Sika MonoTop® products. Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry condition

MIXING

Stir component A (liquid) thoroughly before pouring into a clean mixing container. Add component B (powder) slowly while mixing continuously. Use forced action mixers or low speed electric mixers (maximum 500 rpm) with basket type mixing blades for 3 minutes avoiding entrapment of air. By adding the powder in portions, the desired application consistency can be obtained. For a trowelable consistency use about 90 % of component A approximately 4.5 kg).

APPLICATION

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While the substrate is still in a saturated surface dry condition, apply the first coat by notched trowel and leave to harden. Apply the second coat as soon as possible, after hardening of the first coat, to ensure proper adhesion between layers.
Mortar: For the trowelable mortar use a notched trowel for the first coat. Apply the second coat into the notches and smoothen the surface. For floor applications, to avoid risk of damage to the first coat, it is recommended to apply the second coat after 24 hours. In such cases, the first coat should be slightly re-wetted. After application of the second coat, finish

SikaTop®-105 Seal KE by rubbing down with a soft dry sponge.

CURING TREATMENT

Protect from rapid drying by applying a Sika® Antisol® curing compound or protecting with polythene sheeting.

CLEANING OF EQUIPMENT

Clean all tools and equipment with clean water immediately after use. Hardened / cured 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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