

PRODUCT DATA SHEET

SikaTop®-107 Seal PK

Waterproofing and Damp-proofing Cementitious Slurry

DESCRIPTION

2-component, pre-dosed, ready for use water-proofing slurry based on resin modified cementitious material.

USES

For external and internal waterproofing, on concrete, mortar, brickwork, and steel in:

- Basements
- Swimming pools
- Water tanks
- Flat roofs
- Balconies, terraces
- Bridges
- Retaining walls
- Sea walls
- Tunnel, etc.

CHARACTERISTICS / ADVANTAGES

SikaTop®-107 Seal PK provides the following beneficial properties:

- Pre-dosed mix
- Easy to mix
- Easy to use
- Consistency can be chosen for application by brush or by trowel
- Excellent adhesion on sound substrates
- Impermeable
- Good resistance to abrasion and erosion
- No drying or shrinkage cracks if used according to instruction
- Non-corrosive, non-flammable
- Non toxic
- Slightly flexible

PRODUCT INFORMATION

Chemical Base	Cement, selected graded aggregates and polymer dispersion
Packaging	25 kg (5 kg can of component A and 20 kg bags of component B)
Appearance / Colour	Component A: White Liquid Component B: Grey powder Component A+B: Grey Slurry
Shelf Life	6 months minimum from production date if stored properly in original unopened packaging.
Storage Conditions	Store in original unopened packaging in a cool and dry condition betweenb +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
Viscosity	661 CPS (@ 26°CSpI 3; RPM 100%;66%)

TECHNICAL INFORMATION

Shore A Hardness	As per ASTM 2240-05 ~ 90
Compressive Strength	~ 40 N/mm ² (28 days curing, +23 °C, 50% r.h.) (ASTM C109) Testing carried out at mortar consistency
Tensile Strength in Flexure	~ 9 N/mm ² (28 days curing, +23 °C, 50% r.h.) (ASTM C348) Testing carried out at mortar consistency
Elongation	14 days ~ 66%
Tensile Adhesion Strength	~ 1 N/mm ² (ASTM D 4541)
Crack Bridging Ability	1.2 mm
Penetration Depth	Negative 5 bar 72 hrs ~ 0mm
Water Tightness	No penetration

APPLICATION INFORMATION

Mixing Ratio	For brush application	1 : 4 by weight
	For trowel application	1 : 4.5 by weight
Consumption	1 Kg / m ² / coat (2 coats recommended)	
Yield	1 set of 25 kg yields ~ 12 l of mortar.	
Layer Thickness	min. 0.75 mm per coat max. 1.5 mm per coat Note: Minimum 2 coats (layers) application for waterproofing or damp proofing application In areas of severe water penetration, 3 coats might be required	
Ambient Air Temperature	+5 °C min. / +35 °C max.	
Substrate Temperature	+5 °C min. / +35 °C max.	
Pot Life	~50 minutes (+25 °C)	
Waiting Time / Overcoating	Waiting time between coats: +10 °C ~12 hours +20 °C ~6 hours +30 °C ~3 hours If waiting time period exceeds 24 hours, lightly blast clean the surface.	
Fresh mortar density	2.1 – 2.2 kg/L (part A + B mixed)	

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.

LIMITATIONS

- Do not use more than 2 kg/m² per coat
- For roofing or other structures directly exposed to U.V light, it is suggested that SikaTop is protected with 2-3 cm of cement screed.
- When required to provide a smooth and level surface, levelling screed or render shall be placed before the application of the waterproofing compound. It is recommended that bonding coat is used (e.g. ST 77 D: cement : sand = 1:2:1) before screeding.
- If the substrate to which the SikaTop®-107 Seal PK

is applied cannot dry, the polymer emulsion in it will not coalesce and the SikaTop®-107 Seal PK will not cure to a waterproof thin render.

- For application of tile on top of SikaTop®-107 Seal PK, then Sika® TileFix-200 TA should be used. For optimum result Sika® TileFix-200 TA should be applied max. 48 hours after application of finish coat of SikaTop®-107 Seal PK Seal (finish coat applied by brush).

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

fields.

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, Mortar, Brickwork:

Sound, clean, free of oil, grease, dust or laitance, as even possible absorbent substrates have to be thoroughly watered and must be damp wet prior to application of first coat of SikaTop®-107 Seal PK.

Steel, Iron:

Clean, free of oil, grease and rust

MIXING

Pour half of component A (liquid) into mixing vessel. Add all component B (powder) and mix until you have slurry of uniform consistency. Add rest of component A and mix again until you have uniform, lump-free mixture. A mechanical slow speed mixer is recommended. Mixing time 2-3 minutes. If SikaTop®-107 Seal PK is to be applied by trowel, use only 90% of component A (liquid).

APPLICATION

By Brush:

On vertical surface use suitable brush with synthetic bristles. On horizontal surface use rubber slide or push-broom.

By Trowel:

For first coat use tooth trowel with 3 mm teeth, for second coat use normal flat trowel. Always apply a minimum of 2 coats, the first coat on the still damp, (pre-wetted) substrate. The second coat is to be applied after the first coat started to set and can support the following coat, usually after 2-6 hours, depending on climate. Finish off by brushing with dry sponge when setting of second coat has started. Maximum waiting time between first and second coats is 48 hours.

CURING TREATMENT

As with all cement based products, curing is important. Protect the freshly applied product against direct sunlight and strong winds. Use damp hessian or plastic sheet. Protect the applied SikaTop®-107 Seal PK from rain and water splashes until fully hardened. (± 6 hours).

CLEANING OF TOOLS

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application

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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Product Data Sheet

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