

PRODUCT DATA SHEET

SikaTop® Seal-107 KE

Waterproofing/damp-proofing cementitious slurry

DESCRIPTION

SikaTop® Seal-107 KE is a two part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and a cement-based mix incorporating special admixtures. It is slightly flexible (semi-rigid) to tolerate fine cracks and suitable in both interior and exterior applications.

USES

SikaTop® Seal-107 KE is used for for the following applications:

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Rigid waterproofing of basement walls in new construction and refurbishment
- Pore / blowhole filling and sealing fine "hairline" cracks in concrete structures (not subject to movement)
- Levelling mortar for concrete repair works
- Waterproofing and protection of hydraulic structures, such as: basins, water tanks (also potable concrete water tanks), concrete piping, canals etc.
- Areas or works such as basements and cellars, terraces and balconies, swimming pools and fountains, RC gutters and planter boxes, bathroom toilets, and lift pits among others.

PRODUCT INFORMATION

Composition

- Part A: liquid polymer and additive
- Part B: portland cement selected aggregate and admixtures

Packaging

25 kg units (20 kg bag and 5 kg pail/jerrican)

Shelf life

12 months from date of production if stored properly in undamaged and unopened original sealed packaging

Storage conditions

Store in dry and cool conditions. Liquid component must be protected

CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush or in thin trowel applications
- No water required
- Prebatched components
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion
- Protects concrete against carbonation
- Protects against water penetration
- Non-corrosive to steel or iron
- Overpaintable

APPROVALS / CERTIFICATES

Conforms to the requirements of BS EN 1504-2:2004 Principles 2.2 & 8.2, Annex ZA2 Table ZA.2

	from frost	
Appearance / Colour	<ul style="list-style-type: none"> ▪ Part A: white liquid ▪ Part B: grey powder ▪ Mixed product: cement grey 	
Density	Approximately 1.80 Kg/L	
Compressive strength	3 days ~ 15 N/mm ² 28 days ~ 20 N/mm ²	(According to EN 196-1)
Fresh mortar density	~ 1.90 kg/l	
Consumption	Dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 2.0 kg/m ² /mm (excluding allowances for loss wastage, surface profile and porosity, etc.). 1 unit of 25 kg yields ~ 12.5 l of mortar. Note: The consumption will vary depending on application area, substrate type, substrate roughness, surface profile, absorption of the surface and thickness required.	
Layer thickness	<ul style="list-style-type: none"> ▪ 0.75 mm min ▪ 2.0 mm max. 	
Ambient air temperature	+8°C min. / +35°C max.	
Substrate temperature	+8°C min. / +35°C max.	
Pot Life	~ 30 minutes at +22°C	
Waiting time to 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 blastclean the surface. SikaTop® Seal-107 KE can be overpainted using solvent based primers or coatings. SikaTop® Seal-107 KE must cure for a minimum of 7 days before overcoating	

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

- SikaTop® Seal-107 KE is not a decorative treatment and may display signs of “blooming” after rain or in damp weather. This does not affect the performance of the coating, in any way.
- Trial areas should be conducted prior to application to ensure the required application can be achieved.
- Avoid application in direct sun and/or strong wind.
- Do not add water in any circumstances.
- Apply only to sound, prepared substrates.
- Do not exceed maximum layer thickness.
- For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.5 to 2.0 mm.
- In areas of severe water penetration, three coats might be required.
- Protect freshly applied material from freezing conditions and rain etc.
- SikaTop® Seal-107 KE does not provide a traffickable finish.
- Use Sika®-1 Finishing Mortar for trafficked surface or

protect with a SikaTop®-77, SikaCem®-810 or SikaL-atex® bonded screed.

- For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating with fixings. These must be accommodated by surface bonding with either Sikadur®-31 or Sikaflex® 11 FC etc.
- Time for immersion in water: 7 days at 20 °C.
- Handling is similar to a cement base mortar.
- Do not apply the second layer until the first layer begins to set (approx. 4 - 6 h at 20 °C).

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 / PRE-TREATMENT

The substrate must be structurally sound and free of all traces of contaminants, loose and friable particles, cement laitance, oils and grease etc. The concrete “pull off” (tensile adhesive) strength must be > 1.0

N/mm².

SUBSTRATE PREPARATION

General: The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, blastcleaning, scabblers etc. and properly pre-wetted to a saturated surface dry condition.

For pore / blowhole filling: Blast clean to remove all contaminants including from within the pores / blowholes.

As a levelling mortar: Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed. The resultant surface must be profiled to achieve maximum bond strength.

MIXING

- Used as slurry: A : B = 1 : 4 (parts by weight)
- Used as mortar: A : B 1 : 4.5 - 5.1 (parts by weight)
- Mixing Time: ~ 3 minutes

Mixing Tools: SikaTop® Seal-107 KE must be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle (max. 500 rpm). A normal concrete free fall mixer is NOT suitable.

APPLICATION

Shake part A before using it. Pour approximately half of part A into the mixing container and add part B slowly while mixing. Add the remainder of part A and continue mixing until a uniform lump free consistency is achieved. The surface must be pre-wetted to a saturated surface dry condition before application.

- **As a slurry:** Apply the mixed SikaTop® Seal-107 KE either mechanically, by spray or by hand using a stiff brush. Applied in the same direction. Apply the 2nd coat of SikaTop® Seal-107 KE, applied by brush in crosswise direction to the first application as soon as first coat has hardened.
- **As a mortar:** When SikaTop® Seal-107 KE is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of part A (~ 1A : 4.5 – 5.1B). Apply the 2nd coat of SikaTop® Seal-107 KE as soon as the first coat has hardened. For a smoother finish apply at 1.5mm maximum. For pore / blowhole filling, tightly trowel into the pores / blowholes of the surface before main application.

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CLEANING OF EQUIPMENT

Clean all tools and application 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.