BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-107 Seal KH

Two component cementitious slurry for waterproofing and damp proofing

DESCRIPTION

SikaTop®-107 Seal KH is a two part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures.
SikaTop®-107 Seal KH suitable for drinking water, wet room and swimming pool system.

USES

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Cementitious waterproofing for drinking and portable water, wet room and swimming pool system
- Rigid waterproofing of basement walls in new construction and refurbishment
- Pore / blowhole filling
- Waterproofing basement
- Sealing fine “hairline” cracks in concrete structures (not subject to movement)
- Levelling mortar for concrete repair works

CHARACTERISTICS / ADVANTAGES

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

PRODUCT INFORMATION

Composition	Part A: liquid polymer and additive Part B: portland cement selected aggregate and admixtures
Packaging	25 kg / set Component A: 5kg / pail Component B: 20kg / bag
Appearance / Colour	Part A: white liquid Part B: grey or white powder Mixed product: cement grey
Shelf life	6 months if stored properly in original unopened packaging
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +30 °C..
Density	Fresh mortar density: ~ 2.00 kg/ l

	Dry density: ~ 1.4 kg / m3	(TIS 1505 - 2541)
Compressive strength	7 days	20 MPa
	28 days	30 MPa
	(ASTM C109)	
Water absorption	2.6% (at 28 days)	(ASTM C121-90 (Reapproved 1999))

APPLICATION INFORMATION

Mixing ratio	A : B = 1 : 4 (parts by weight)
Consumption	Dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 2.0 kg / m2 / mm (excluding allowances for loss wastage, surface profile and porosity, etc.).
Yield	~12.5 L of mortar.
Layer thickness	0.75 mm minimum / 2 mm maximum
Ambient air temperature	+8°C min. / +35°C max.
Substrate temperature	+8°C min. / +35°C max.
Pot Life	~ 30 minutes at +20°C
Waiting time to overcoating	If waiting time period exceeds 24 hours, lightly blastclean the surface. SikaTop®-107 Seal KH can be overpainted using solvent based primers or coatings. SikaTop®-107 Seal KH must cure for a minimum of 7 days before overcoating. 10°C ~ 12 hours 20°C ~ 6 hours 30°C ~ 3 hours
Curing treatment	It is essential to cure SikaTop®-107 Seal KH immediately after application for a minimum of 3 to 5 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or similar approved methods.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

SikaTop®-107 Seal KH 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. Where SikaTop®-107 Seal KH will be visible after completion of the works, then the off-white colour, which is aesthetically more pleasing, should be used.

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 rain.
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 CF Normal or Sikaflex® Construction (AP) etc.

ECOLOGY, HEALTH AND SAFETY

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.

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 condi-

tion.

For pore / blowhole filling:
Blastclean 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 blowholesand honeycombed areas are exposed. The resultant surface must be profiled to achieve maximum bond strength.

MIXING

SikaTop® Seal -107 must be mechanically mixed for **3 minutes** using a forced action mixer or in a clean drum using a drill and

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 slightly pre-wetted.

As a slurry:
Apply the mixed SikaTop®-107 Seal KH either mechanically by spray or by hand using a stiff brush. Applied in the same direction.
Apply the 2nd coat of SikaTop®-107 Seal KH, applied by brush in crosswise direction to the first application as soon as first coat has hardened.

As a mortar:
When SikaTop®-107 Seal KH is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of part A (~ 1 A : 4.5 B). Apply the 2nd coat of SikaTop®-107 Seal KH as soon as the first coat has hardened. For pore / blowhole filling, tightly trowel into the pores / blowholes of the surface.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.