

PRODUCT DATA SHEET

SikaTop® Seal-107 LK

Polymer modified cementitious waterproofing slurry and protective coating

DESCRIPTION

SikaTop® Seal-107 LK 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 applied to concrete and mortar to prevent water infiltration.

USES

SikaTop® Seal-107 LK is used for:

- 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
- Exterior waterproofing of basement walls in new construction and refurbishment
- Pore / blowhole filling Rigid waterproofing of water tanks, bathrooms, toilets, etc.
- Sealing fine "hairline" cracks in concrete structures not subject to movement
- Sealing internal basement walls against dampness
- Levelling mortar for concrete repair works

Areas of application

- Potable concrete water tanks
- Basements
- Terraces and balconies
- Retaining walls
- Fountains
- RC gutters and planter boxes
- Bathroom floors
- Seawalls
- Swimming pools

CHARACTERISTICS / ADVANTAGES

- Prebatched components - mixes and applies easily
- Slurry or trowellable consistency
- Good adhesion to sound, prepared substrates
- Increased frost and salt resistance Protects against concrete carbonation and water penetration
- Non toxic - suitable for contact with drinking water
- Non corrosive to steel or iron

APPROVALS / CERTIFICATES

- Approved for contact with potable water
- SPAN - MS1583:Part 1:2003
- SIRIM - MS 1583:Part 1:2003, SS 375 : Part 1 : 2001, BS 6920-1:2014
- Singapore Green Label: 032-118-2813 "Environmentally Preferred Coating"

PRODUCT INFORMATION

Composition	Part A Part B	Liquid polymer and additive Portland cement, selected aggregate and additives
Packaging	Part A Part B Part A+B	5 kg can 20 kg bag 25 kg set

PRODUCT DATA SHEET

SikaTop® Seal-107 LK

February 2023, Version 01.01

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Shelf life	12 months from the date of production	
Storage conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from direct sunlight, rain, water and moisture.	
Appearance and colour	Part A	White liquid
	Part B	Grey powder
	Part A+B	Grey slurry

TECHNICAL INFORMATION

Tensile adhesion strength	~0.7 N/mm ² Tested under laboratory controlled conditions. Results may vary at site conditions	(EN 1542)
Capillary absorption	< 0.1 kg/m ² .h 0.5	(EN 1062-3)
Permeability to water vapour	< 5 m	(EN ISO 7783-1 & 7783-2)
Permeability to carbon dioxide	> 50 m	(EN 1062-6)

APPLICATION INFORMATION

Fresh mortar density	1.9–2.0 kg/l	
Consumption	<ul style="list-style-type: none"> ▪ Waterproofing bathrooms, terraces and balconies is 1.0 kg/m² per coat ▪ Waterproofing coating more than 1 m waterhead is 1.5 kg/m² per coat ▪ As a protective coating is 2.0 kg/m² per coat Notes: <ul style="list-style-type: none"> ▪ SikaTop® Seal-107 LK must be applied in minimum of 2 coats, including upturns up to 300 mm height ▪ 3 coats may be required in areas of extremely high infiltration ▪ For upturn more 300 mm height, please contact Sika's Technical Service Department. 	
Pot Life	~30 minutes (at +30 °C). Pot life will be shortened at higher temperatures.	
Waiting time to overcoating	Waiting Time The waiting time between coats is 4–8 hours (at +30 °C). Overcoating For overcoating with other cementitious materials, allow the second coat to harden for at least 3 days prior to overcoating. For use in water-retaining structures or for applying renders over it or for overcoating with non-cementitious materials, please contact Sika's Technical Service Department.	

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.

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, sharp edges, oils and grease etc. The concrete pull-off (tensile adhesion) 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 condition.

For pore / blowhole filling

Blast clean to remove all contaminants including from within the pore / 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. Absorbent surfaces have to be thoroughly saturated with water, preferably 2 hours prior to application of first coat of SikaTop® Seal-107 LK. However, no standing water should be on the surface before application. The surface shall not be allowed to dry-out before application of SikaTop® Seal-107 LK. All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of 25 mm x 25 mm or seal with Sika® SealTape-F. Note: SikaTop® Seal-107 LK will not bond to surfaces that have been treated previously with water repellent.

MIXING

Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result. The consistency of the mix can be altered by reducing the amount of part A to be used. For trowel application, use only 90 % of part A (approximately 4.5 kg). Mix in a clean container by slowly adding part B to part A and stir with a low speed mixer for about 3 minutes. Use within 30 minutes. SikaTop® Seal-107 LK must be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle (max. 500 rpm). A normal drum mixer or free-fall mixer is NOT suitable.

APPLICATION

Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden for approximately 4–8 hours at temperatures above 20 °C before applying the second coat.

As a slurry

Apply the mixed SikaTop® Seal-107 LK by hand using a hard plastic bristled brush or broom. Applied in the same direction. Apply the second coat of SikaTop® Seal-107 LK in crosswise direction to the first application as soon as first coat has hardened.

As a mortar

SikaTop® Seal-107 LK is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10 % reduction of part A. Apply the second coat of SikaTop® Seal-107 LK as soon as the first coat has hardened.

For pore / blowhole filling, tightly trowel into the pores / blowholes of the surface. For floor applications, to avoid risk of damage to the first coat, it is recommended that the second coat be applied before

24 hours. If the second coat is applied 12 hours or later, the first coat shall be slightly prewetted, preferably by using a fine spray. After the second coat has been applied, a better finish can be achieved by rubbing down with a soft, dry sponge. For more details, please contact Sika Technical Service Department.

CURING TREATMENT

Generally not required but precautions should be taken for applications done directly under sunlight and windy conditions.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

FURTHER INFORMATION

For more information on application, please refer to Method Statement "Application of Cementitious Waterproofing mortar/slurry to Wet Rooms".

IMPORTANT CONSIDERATIONS

SikaTop® Seal-107 LK 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 a decorative finish is required, overpaint SikaTop® Seal-107 LK with any approved Sika solvent based protective and decorative coatings, e.g. Sikagard®-680 MY.

- Avoid application under direct sun and/or strong wind. Do not add water in any circumstances. Apply only to sound, prepared substrates - surfaces should be well dampened but free of surface water and leaks.
- For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.0–2.0 mm. In areas of severe water penetration, three coats might be required.
- Protect freshly applied material against direct sunlight, strong winds, rain and dust for at least 8 hours.
- SikaTop® Seal-107 LK does not provide a trafficable finish. Protect with screed mixed with SikaLatex® SP (Refer to SikaLatex® SP Product Data Sheet).
- For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating with fixings.
- When used in contact with potable water structures, ensure that all associated products and construction materials also comply with the local regulations for contact with potable water.

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.

PRODUCT DATA SHEET

SikaTop® Seal-107 LK

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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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