

PRODUCT DATA SHEET

SikaTop® Seal-107 SA

Waterproofing and Damp-proofing Cementitious Slurry

DESCRIPTION

SikaTop® Seal-107 SA is a 2-part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and cement based mix incorporating special admixtures.

Suitable for use in hot and tropical climatic conditions.

USES

SikaTop® Seal-107 SA is used for:-

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Concrete surface protection, to improve the durability
- Rigid waterproofing of wet areas/basement walls in new construction and refurbishment
- Pore / blowhole filling

- Waterproofing and protection of hydraulic structures such as: basins, tanks, concret piping, bridges, canals
- Sealing fine "hairline" cracks in concrete structures (not subject to movement)
- Waterproofing of terraces, balconies and wet areas underneath protection screed and tiles

FEATURES

- Easy to apply by brush or in thin trowel applications
- No water required
- Pre-batched components
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion
- Protects concrete against carbonation
- Protects against water penetration
- Over-paintable

PRODUCT INFORMATION

Composition	Part A: Liquid polymer and additives Part B: Portland cement, selected graded aggregates and admixtures
Packaging	25 kg set (Part A: 5 kg pail + Part B: 20 kg bag)
Appearance and colour	Component A: White Liquid Component B: Grey or White Powder Mixed product: Cement Grey or Off White
Shelf life	Minimum 6 months from date of production if stored properly in undamaged and original sealed packaging.
Storage conditions	Store in original unopened packaging in cool and dry conditions between +5 °C and +35 °C. Protect from direct sunlight and frost.
Density	~ 2.00 kg/l (fresh mortar at +25 °C)
Volatile organic compound (VOC) content	< 1 g/l (SCAQMD RULE 1168)

TECHNICAL INFORMATION

Compressive strength	~ 30 N/mm ² (28 days curing, +23 °C, 50% r.h.) (ASTM C109) Testing carried out at mortar consistency	
Tensile adhesion strength	~ 1.0 N/mm ² (28 days curing)	(ASTM D4541)
Watertightness	No penetration	

APPLICATION INFORMATION

Mixing ratio	A : B = 1 : 4 by weight
Consumption	~ 2.0 kg/m ² /mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile and wastage etc.
Yield	1 set of 25 kg yields ~ 12.5 lt of mortar
Layer thickness	Minimum 0.75 mm per coat Maximum 1.5 mm per coat Note: Minimum 2 coats (layers) application required for waterproofing or damp proofing application. In areas of severe water penetration, an additional coat application is recommended.
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	~12 hours (at +10 °C) ~ 6 hours (at +20 °C) ~ 3 hours (at +30 °C) If waiting time period exceeds 24 hours, lightly blast clean the surface.

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® Seal-107 SA is not a decorative treatment and may display signs of “blooming” after rain or in damp weather. However, this does not affect the performance of the coating.
- 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. Contact Sika Technical Service Department for advice.
- Protect freshly applied material from freezing conditions and rain etc.
- SikaTop® Seal-107 SA does not provide a trafficable finish. Protection layer needs to be applied.
- When tiling direct on SikaTop® Seal-107 SA, recommended tile adhesive should be minimum class C2, according to EN 12004. Adhesion trials are recommended.

- For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The cement based substrate “pull-off strength” (tensile adhesion strength) must be ~1.0 N/mm² or higher.

SUBSTRATE PREPARATION

- Substrates must be properly cured, structurally sound, free of any loose or friable particles such as dust, dirt, oil, grease, cement laitance or efflorescence. Prepared surface must be clean and free of any contaminants.
- Depending on the substrate condition perform adequate surface preparation techniques, such as wa-

ter-jet washing or blastcleaning, in order to remove all traces that could reduce the adhesion.

- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer SikaTop® Seal-107 SA. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the SikaRep®, Sika MonoTop® or Sika-floor® Level range should be used. Structural cracks in substrates must be identified and sealed appropriately e.g. with Sikadur® epoxy resins.
- For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance. Prepared substrate shall be saturated surface dry (SSD) condition.

MIXING

SikaTop® Seal-107 SA must be mechanically mixed using a forced action mixer or using a drill and paddle (max. 500 rpm) in a clean drum. A normal concrete free fall mixer is NOT suitable. Stir Part A (liquid) thoroughly before pouring approximately half into a clean mixing container. Add Part B (powder) slowly while mixing continuously. Add the remaining portion of Part A and continue mixing, until a uniform, lump free consistency is achieved (~ 3 minutes).

APPLICATION METHOD / TOOLS

As a slurry:

Apply 1st coat of mixed SikaTop® Seal-107 SA either mechanically by spray, or by hand using a stiff brush. Apply 2nd coat of SikaTop® Seal-107 SA in crosswise direction to the first coat application, as soon as first coat has hardened.

As a mortar:

When SikaTop® Seal-107 SA is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of Part A. Apply 2 coats in crosswise direction. Apply 2nd coat of SikaTop® Seal-107 SA as soon as the first coat has hardened.

As pore / blowhole filler:

Tightly trowel

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

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.

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ISO 9001, 14001, 45001 – SGS:
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ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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