

PRODUCT DATA SHEET

SikaTop®-107 Seal WR

Waterproofing and Damp-proofing Cementitious Slurry

DESCRIPTION

SikaTop®-107 Seal WR 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

- 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 applied
- Easy and fast mixing
- Very good adhesion
- Protects concrete against carbonation
- Protects against water penetration
- Over-paintable

PRODUCT INFORMATION

Composition	Blend of Portland cements, selected graded aggregates, admixtures, liquid polymers and additives.	
Packaging	22.5 kg set	
	Component A: Liquid	4.5 kg pail
	Component B: Powder	18 kg bag
Shelf life	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	~2.0 kg/l (fresh mortar at +25 °C)	
Volatile organic compound (VOC) content	< 1 g/l	

TECHNICAL INFORMATION

Compressive strength	~28 N/mm ² (28 days curing, +23 °C, 50 % r.h.) Testing carried out at mortar consistency	(ASTM C109)
Flexural-strength	~6 N/mm ² (28 days curing, +23 °C, 50 % r.h.) Testing carried out at mortar consistency	(ASTM C348)
Tensile adhesion strength	~1 N/mm ²	(ASTM D4541)
Watertightness	No penetration	

APPLICATION INFORMATION

Mixing ratio	A:B = 1:4 by weight	
Consumption	~2.0 kg/m ² at 1 mm thickness Note: This figure does not include additional material required due to surface porosity, surface profile, variations in level and wastages.	
Yield	1 set of 22.5 kg yields ~11.25 l of mixed slurry	
Layer thickness	Minimum 0.75 mm per coat	Maximum 1.5 mm per coat
	Note: A minimum of two coats shall be applied for waterproofing or damp-proofing applications. In areas subject to severe water ingress, three coats is recommended.	
Ambient air temperature	+5 °C min. / +40 °C max.	
Substrate temperature	+5 °C min. / +40 °C max.	
Pot Life	~30 minutes at +20 °C	
Waiting time to overcoating	Between coats:	
	+20 °C	~6 hours
	+30 °C	~3 hours
	Note: Waiting times are approximate and will be effected by ambient and substrate conditions.	

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.

FURTHER DOCUMENTATION

SikaTop®-107 Seal WR - General Method Statement

IMPORTANT CONSIDERATIONS

- SikaTop®-107 Seal WR 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.
- 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 to avoid crazing.
- For waterproofing or damp proofing application, always use at least two coats to give a total thickness of between 1.5 to 2.0 mm. In areas of severe water penetration, three coats is recommended. Contact Sika Technical Service Department for advice.

- Protect freshly applied material from rain and adverse weather conditions.
- SikaTop®-107 Seal WR does not provide a trafficable finish. Protection layer needs to be applied.
- When tiling direct on SikaTop®-107 Seal WR, recommended tile adhesive should be minimum class C2, according to EN 12004. Adhesion trials are recommended.
- For waterproofing and damp-proofing works, special attention is required to avoid puncturing the coating with any fixings.

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 pull-off strength (tensile adhesion strength) of cement based substrate must be $\sim 1.0 \text{ N/mm}^2$ or higher.

SUBSTRATE PREPARATION

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, cement laitance, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blast cleaning, to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- 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®-107 Seal WR. 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. 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.

MIXING

SikaTop®-107 Seal WR must be mechanically mixed using a forced action mixer, in a clean drum, or using a drill and paddle (max. 500 rpm). 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).

The Part A component can be reduced to provide a thicker mortar consistency depending on the application requirement. Consult Sika Technical Department for advice.

APPLICATION METHOD / TOOLS

Apply SikaTop®-107 Seal WR to completely cover the substrate surface, ensuring a uniform application at the recommended thickness.

Slurry application:

Apply the mixed SikaTop®-107 Seal WR by hand using a stiff brush or roller in one direction, while monitoring the applied thickness.

Subsequent coats may be applied once the initial coat has hardened, preferably in a direction perpendicular to the previous coat to ensure uniform coverage.

Mortar application:

Apply SikaTop®-107 Seal WR in mortar consistency using a notched trowel, exerting firm and even pressure onto the substrate. Smooth the mortar with the flat side of the trowel while monitoring the applied thickness.

Subsequent coats shall be applied using the same method, ensuring a uniform and continuous layer.

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.



Product Data Sheet

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