

SikaTop® Seal-107

Waterproofing damp-proofing cementitious slurry

Product Description

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

SikaTop® Seal-107 complies with the requirements of EN 1504-2 as protective coating.

Uses

- 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
- Waterproofing basements and cellars (Not subject to hydrostatic water pressure)
- Sealing fine "hairline" cracks in concrete structures (Not subject to movement)
- Leveling mortar for concrete repair works
- Interior and exterior waterproofing and damp proofing of oncrete, Cementitious rendering, Brickwork and Block-work

SikaTop® Seal-107 can be used for concrete protection. in particular it is:

√Suitable for protection against ingress (Principle 1, method 1.3 of EN 1504-9),

√Suitable for moisture control (Principle 2, method 2.2 of EN 1504-9)

Suitable for increasing the resistivity (Principle 8, method 8.2 of EN 1504-9)

**Advantages/
Characteristics**

- Easy to apply, by brush or in thin trowel application
 - No water required
 - Pre-batched components
 - Hand or spray applied
 - Easy and fast mixing
 - Very good adhesion
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Construction

- Protects concrete against carbonation
- Protects against water penetration
- Non corrosive to steel or iron
- Over paintable
- Approved for potable water contact

PRODUCT DATA

Appearance/color	Part A: white liquid Part B: grey Mixed product: cement grey
Packaging	25kg units (20 kg bag and 5 kg Jericans)

TECHNICAL DATA

Chemical Base	Part A: liquid polymer and additive Part B: Portland cement selected aggregate and admixtures
Density	Fresh mortar density: ~ 2.00 kg/l
Layer Thickness	Min. 0.75mm min – max. 1.5mm

Mechanical/

Physical Properties

Compressive Strength	(According to EN 196-1)	
	3 Days	~ 7 N/mm ²
	28 Days	~ 20 N/mm ²

Bond Strength 2.0 to 3.0 N/mm² (failure in substrate)

STORAGE

Storage conditions/Shelf life 6 months from date of production if stored properly in undamaged and unopened original sealed packaging in dry and cool conditions. Liquid component must be protected from frost.

System Information

Consumption/
Dosage 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.).
1 unit of 25kg yields ~ 12.5 litres of mortar.

Substrate Quality 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, blast cleaning, scrabbles 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.	
Application Conditions / Limitations		
Substrate Temperature	+8°C min. / +35°C max.	
Ambient Temperature	+8°C min. / +35°C max.	
Application Instructions		
Mixing	Used as slurry: A : B = 1 : 4 (parts by weight) Used as mortar: A : B : 4.5 (parts by weight)	
Mixing Time	~ 3 minutes	
Mixing Tools	SikaTop [®] Seal-107 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 Method/ Tools	<p>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.</p> <p><i>As a slurry:</i> Apply the mixed SikaTop[®] Seal 107 either mechanically, by spray or by hand using a stiff brush. Applied in the same direction. Apply the 2nd coat of SikaTop[®] Seal-107 , applied by brush in crosswise direction to the first application as soon as first coat has hardened.</p> <p><i>As a mortar:</i> When SikaTop[®] Seal-107 is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of part A (~ 1A : 4.5B). Apply the 2nd coat of SikaTop[®] Seal-107 as soon as the first coat has hardened. For pore/blowhole filling, tightly trowel into the pores/blowholes of the surface.</p>	
Cleaning Tools	Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.	
Pot Life	30 minutes at +20°C	
Waiting Time / Overcoat ability	<i>Waiting time between coats</i>	
	+10°C	~ 12 hours
	+20°C	~ 6 hours
	+30°C	~ 3 hours
	<p>If waiting time period exceeds 24 hours, lightly blast clean the surface. SikaTop[®] Seal-107 can be over painted using solvent based primers or coatings. SikaTop[®] Seal-107 must cure for a minimum of 7 days before over coating.</p>	
Notes on Application/ Limitations	<p>SikaTop[®] Seal-107 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[®] Seal-107 will be visible after completion of the works, then the off-white color, which is aesthetically more pleasing, should be used.</p>	

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 2.0mm. In areas of severe water penetration, three coats might be required.

Protect freshly applied material from freezing conditions and rain etc.

SikaTop® Seal-107 does not provide a trafficable finish. Protect with a SikaCem® -810 or SikaLatex® 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.

When used in contact with drinking structures, ensure that all associated Sika® products and construction materials also comply with the local regulations for drinking water contact.

Curing Treatment

It is essential to cure SikaTop® Seal-107 immediately after application for a minimum of 3 to 5 days to ensure full cement hydration and to minimize cracking. Use polythene sheeting or similar approved methods.

Value Base

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.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety

For information and advice on the safe handling, storage and disposal of chemical products, please refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related 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.



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