

**Product Data Sheet**  
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SikaTop® Seal-107

# SikaTop® Seal-107

## 2-pack acrylic cementitious waterproofing coating system

### Product Description

SikaTop® Seal-107 is a two part acrylic polymer modified cementitious liquid applied waterproof coating system.

### Uses

SikaTop® Seal-107 is used for external and/or internal waterproofing in the following structures:

- Water-tanks
- Basement
- Terraces and balconies
- Bridges
- Retaining walls
- Sea walls
- Flat roofs

SikaTop® Seal-107 should be used with suitable protection layer as a part of the waterproofing system (Please refer to Sika® System Guide)

### Characteristics / Advantages

- Easy to apply by brush or in thin trowel applications
- No additional water required to make the slurry
- Pre batched components
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion with sound and prepared substrates
- Protects concrete against water penetration, chloride and carbonation
- Non-corrosive to steel or iron
- Approved for potable water contact
- Flexible enough to bridge hairline crack

### Tests

#### Approval / Standards

Conforms to: IS 6582 (Compatibility with drinking water)  
Conforms to: ASTM D 2370

### Product Data

#### Form

#### Appearance /Colours

Part A: white liquid  
Part B: grey powder

Mixed product: cement grey

#### Packaging

Part A: 1.00 kg container x 6  
Part B: 4.00 kg bag x 6  
Part (A+B): 5.00 kg x 6 ready to mix units

Construction



## 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.

## Technical Data

**Chemical Base** Part A: liquid polymer and additive  
Part B: portland cement with selected aggregate and additive

**Density** Fresh slurry density: ~ 2.00 kg/l at +27°C

**Layer Thickness** 1.5 mm – 2.0 mm average

**Water Vapour Resistance** 3 g /m<sup>2</sup> / day

## Mechanical / Physical Properties

### Compressive Strength

3 days	~ 2 N/mm <sup>2</sup>
28 days	~ 20 N/mm <sup>2</sup>

Above values at +27°C

**Tensile Strength** ~ 4.56 N/mm<sup>2</sup> after 14 days exposure (According to ASTM D 2370)

**Bond Strength** 2.0 N/mm<sup>2</sup> at +27°C (failure in substrate)

**Elongation at Break** With Sika<sup>®</sup> Fab-1, 8-10 %

## System Information

### Application Details

**Consumption / Dosage** Depending on type of application, 2 coats are always required. For water proofing upto 1m head pressure ~ 1.5 kg /m<sup>2</sup> per coat. Above 1m head pressure: 2.0 kg/m<sup>2</sup> per coat, 3 coats may be required in areas of extremely high infiltration. Normally 3.00 kg of Sika Top<sup>®</sup> Seal-107 is sufficient to cover one square meter area. On well prepared smooth substrate the consumption would be less.

**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/mm<sup>2</sup>.

### Substrate Preparation

*General:*

The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, blast cleaning etc. and properly pre-wetted to a saturated surface dry (SSD) condition.

*For pore / blowhole cleaning:*

Blast clean to remove all contaminants within the pores / blowholes.

## Application Conditions / Limitations

**Substrate Temperature** +10°C min. / +40°C max.

**Ambient Temperature** +10°C min. / +40°C max.

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**Application Instructions**

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**Mixing** Used as slurry: Part A : Part B = 1 : 4 (by weight)

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**Mixing Time/ Tools** The consistency of the mix can be altered by reducing the amount of component A (liquid) to be used. Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result. For a trowellable consistency use only 90% of component A. Mix in a clean container by slowly adding the powder component to the liquid component and stirring with slow speed mixer (500 - 600 rpm). Mix for 3 minutes until free from lumps.

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**Application Method / Tools** Dampen all surfaces immediately ahead of Sika Top® Seal-107 application. Whilst the surface is still damp from saturation, apply the first coat and leave to harden (2-6 hrs.). For slurry consistency apply with a hard plastic bristled brush or broom. For trowellable mortars use a notched trowel. After the second coat has been applied, finish by rubbing down with a soft, dry sponge.

*As a slurry:*

Apply the mixed SikaTop® Seal 107 either mechanically, by spray or by hand using a stiff brush. Applied in the same direction.

Apply the 2<sup>nd</sup> coat of SikaTop® Seal-107, applied by brush in crosswise direction to the first application as soon as first coat has hardened.

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**Cleaning of Tools** Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

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**Potlife** ~ 35 minutes at +27°C

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**Waiting Time** Waiting time between coats 2-6 hours depending on temperature and humidity

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**Notes on Application / Limitations** 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 freezing conditions and rain etc.

SikaTop® Seal-107 does not provide a traffickable finish. Use Sika®-1 Finishing Mortar for trafficked surface or protect with a SikaTop®-77, Sika Latex® bonded screed.

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.

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**Curing Details**

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**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 minimise cracking. Use polythene sheeting or similar approved methods.

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**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.

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**Health and Safety Information** For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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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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