

## PRODUCT DATA SHEET

# SikaTop® Seal-107 TZ

Liquid applied, cementitious waterproofing slurry

### DESCRIPTION

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

### USES

SikaTop® Seal-107 TZ 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
- Rigid waterproofing of basement walls in new construction and refurbishment
- Pore / blowhole filling and sealing fine “hairline” cracks in concrete structures (not subject to movement)
- Waterproofing basement and cellars
- Sealing fine “hairline” cracks in concrete structures (not subject to movement)
- Levelling mortar for concrete repair works
- Waterproofing of swimming pools, drinking water tanks and reservoirs among others

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

- Suitable for protection against ingress
- Suitable for moisture control
- Suitable for increasing the resistivity

### CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush or in thin trowel applications
- No water required
- Prebatched components
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion
- Protects concrete against carbonation
- Protects against water penetration
- Non-corrosive to steel or iron
- Overpaintable
- Approved for potable water contact

### PRODUCT INFORMATION

#### Composition

Component A  
Component B

Liquid Polymer and Additives  
Portland cement selected aggregates and admixtures

<b>Packaging</b>	Component A	5 kg	
	Component B	20 kg	
<b>Shelf life</b>	12 Months from date of production		
<b>Storage conditions</b>	Product must be stored in original, unopened and undamaged sealed packaging in dry condition at temperatures between +5°C and +30°C. Always refer to packaging		
<b>Appearance / Colour</b>	Component A	White liquid	
	Component B	Grey powder	
<b>Maximum grain size</b>	Dmax: 0.4 mm		
<b>Compressive strength</b>	7 Days	~12 N/mm <sup>2</sup>	(EN 196-1)
	28 Days	~18 N/mm <sup>2</sup>	
<b>Mixing ratio</b>	Used as a slurry	A:B = 1:4 (parts by weight)	
	Used as a mortar	A:B = 1:4.5 (parts by weight)	
<b>Fresh mortar density</b>	Fresh mortar density: ~2.00kg/l		
<b>Consumption</b>	Dependent on the substrate roughness, surface profile and thickness of the layer applied. As a guide, ~ 2.0 kg/m <sup>2</sup> /mm (excluding allowances for loss wastage, surface profile and porosity, etc.).		
<b>Yield</b>	1 unit of 25kg yields ~ 12.5 litres of mortar.		
<b>Layer thickness</b>	Min. 0.75mm min – max. 1.5mm/coat		
<b>Ambient air temperature</b>	+8°C min. / +35°C max.		
<b>Substrate temperature</b>	+8°C min. / +35°C max.		
<b>Pot Life</b>	~ 30 minutes at +20°C		
<b>Waiting time to overcoating</b>	Waiting time between coats:		
	+10°C	~12 hours	
	+20°C	~6 hours	
	+30°C	~3 hours	
If waiting time period exceeds 24 hours, lightly blast clean the surface. SikaTop® Seal-107 TZ can be overpainted using solvent based primers or coatings. SikaTop® Seal-107 TZ must cure for a minimum of 7 days before overcoating.			

## BASIS OF PRODUCT DATA

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.

## ECOLOGY, HEALTH AND SAFETY

## 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, oils and grease etc.

The concrete “pull off” (tensile adhesive) strength must be > 1.0 N/mm<sup>2</sup>.

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:

Blastclean 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.

### MIXING

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. SikaTop® Seal-107 TZ 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. Mixing should take place for at least 3 minutes.

## APPLICATION

As a slurry:

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

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

As a mortar:

When SikaTop® Seal-107 TZ 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 TZ as soon as the first coat has hardened.

For pore/blowhole filling, tightly trowel into the pores/blowholes of the surface.

## CURING TREATMENT

It is essential to cure SikaTop® Seal-107 TZ 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.

## 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

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