

PRODUCT DATA SHEET

SikaTop[®]-107 Seal TH

Two Component Cementitious Slurry for Waterproofing and Damp Proofing

DESCRIPTION

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

SikaTop[®]-107 Seal TH suitable for drinking water tank, wet room ,balcony and swimming pool.

USES

- Cementitious waterproofing for drinking and portable water tank, wet room , balcony and swimming pool system
- Waterproofing of basement walls in new construction and refurbishment
- Sealing fine “hairline” cracks in concrete structures (not subject to movement)

CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush, thin trowel and spray 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
- Approved for potable water contact

SUSTAINABILITY

- LEED v4 and v4.1 BETA (ISO 16000, CDPH 01350 and ASTM D2369), Eurofins Product Testing A/S.
- WELL Building Standard™ (CDPH 01350 and ASTM D2369), Eurofins Product Testing A/S.
- Volatile organic compounds(VOC) content (ISO 11890-2:2013), Department of Science Service.
- Volatile and Non-Volatile matter (TIS 285:Part6-2016), Reference No. SPT 21.2/64.

APPROVALS / CERTIFICATES

Water quality test report from water quality control division, Provincial Water Works Authority of Thailand.

PRODUCT INFORMATION

Composition	Part A	Liquid polymer and additive	
	Part B	Portland cement selected aggregate and admixtures	
Packaging	25 kg/set	Part A	4.55 kg / pail
		Part B	20.45 kg / bag
	5 kg/set	Part A	0.9 kg / pail
		Part B	4.1 kg / bag

Shelf life	9 months (25 kg/set)		
	9 months (5 kg/set)		
Storage conditions	Commencing from date of production if stored properly in undamaged and unopened original sealed packaging in dry and cool conditions.		
Appearance and colour	Part A	White liquid	
	Part B	Grey powder	
	Mixed	Cement grey	
Density	Fresh mortar density	~ 2.00 kg/L	
	Dry density	~ 1.4 kg / m ³	(TIS 1505 - 2541)

TECHNICAL INFORMATION

Compressive strength	7 days	20 MPa	(ASTM C109)
	28 days	30 MPa	
Tensile adhesion strength	0.7 MPa (Bond to concrete at 28 days)		(ASTM C952-02)
Water absorption	2.6% (at 28 days)		(ASTM C121-90 (Reapproved 1999))

APPLICATION INFORMATION

Mixing ratio	Used as slurry	A : B = 1 : 4 (parts by weight)	
	Used as mortar	A : B = 1 : 4.5 (parts by weight)	
Consumption	<ul style="list-style-type: none"> ▪ 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 25 kg yields ~ 12.5 L of mortar. 		
Layer thickness	<p>For ordinary water conditions : A total thickness of 1.5 mm. at total consumption 3 kg/m²</p> <p>For high water pressure conditions: A total thickness of 2 mm. at total consumption 4 kg/m²</p>		
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	Waiting time between coats.		
	10°C	~ 12 hours	
	20°C	~ 6 hours	
	30°C	~ 3 hours	
<p>If waiting time period exceeds 24 hours, lightly blastclean the surface. SikaTop®-107 Seal TH can be overpainted using solvent based primers or coatings. SikaTop®-107 Seal TH must cure for a minimum of 7 days before overcoating.</p>			

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.

IMPORTANT CONSIDERATIONS

- SikaTop®-107 Seal TH 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.
- 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.
- 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 CF Normal or Sikaflex® Construction (AP) 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.

ECOLOGY, HEALTH AND SAFETY

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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, 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.

MIXING

Mixing Time : ~ 3 minutes

Mixing Tools : SikaTop®-107 Seal TH 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

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.

As a slurry:

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

As a mortar:

- When SikaTop®-107 Seal TH is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of part A (~ 1 A : 4.5 B).
- Apply the 2nd coat of SikaTop®-107 Seal TH 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®-107 Seal TH 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 tool 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 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.

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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