Product Data Sheet Edition: September 2019 Version: 01 SikaTop[®] Seal-107

SikaTop[®] Seal-107

Waterproofing and Damp-proofing Cementitious Slurry

Product Description	SikaTop [®] Seal-107 is a 2-part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and cement based mix incorporating special admixtures.
	SikaTop® Seal-107 complies with the requirements of EN 1504-2 as protective coating.
	Suitable for use in hot and tropical climatic conditions.
Uses	SikaTop [®] Seal-107 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- that attack
	Rigid waterproofing of basement walls in new construction and refurbishment
	Pore / blowhole filling
	 Waterproofing basement and cellars
	 Sealing fine "hairline" cracks in concrete structures (not subject to movement)
	 Levelling mortar for concrete repair works
	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)
Characteristics /	Easy to apply by brush or in thin trowel applications
Advantages	No water required
	Pre-batched 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
	Over-paintable
	Approved for potable water contact
Tests	
Standards / Approvals	British Board of Agreement Certificate No. 95/3174
	 WRAS drinking water approval no. 1111526 for use with hot water < 60°C



Product Data			
Form	Component A: Liquid		
	Component B: Powder		
Appearance / Colour	Part A: White Liquid		
	Part B: Grey or White Powder Mixed product: Cement Grey or Off White		
Packaging	25 kg set (5 kg pail Part A + 20 kg ba	ag Part B)	
Storage			
Storage Conditions	Store in original unopened packaging in co 35°C. Protect from direct sunlight and frost.	ool and dry conditions between 5°C an	
Shelf Life	Minimum 6 months from date of production if stored properly in undamaged and original sealed packaging.		
Technical Data			
Chemical Base	Part A: Liquid polymer and additives		
	Part B: Portland cement, selected graded ag	gregates and admixtures	
Density (at 25°C)	~ 2.00 kg/lit (fresh mortar)		
Layer Thickness	Minimum: 0.75 mm		
	Maximum: 1.5 mm		
Thermal Expansion	13 x 10 ⁻⁶ per °C		
Carbon Dioxide Diffusion Coefficient (μCO₂)	~ 35.000		
Water Vapour Diffusion Coefficient (µH₂O)	~ 500		
Compressive Strength		(EN 196-1)	
	3 days	~ 20 N/mm ²	
	28 days	~ 35 N/mm ²	
Flexural Strength		(EN 196-1)	
	3 days	~ 6 N/mm ²	
	28 days	~ 10 N/mm ²	
Tensile Strength (14 days)		(DIN 53455)	
Tensne Strength (14 days)	Cured in water:	~ 3.2 N/mm ²	
	Cured in water.	~ 4.5 N/mm ²	
Bond Strength	~ 1.0 N/mm ² (depends on substrate roughness, curing environment, thickness etc.)		
E-Modulus	Static: ~ 8.4 kN/mm ²		
Application Details			
Consumption	Dependent on the substrate roughness, surface profile and thickness of the layer applied.		
	As a guide, ~ 2.0 kg/m ² /mm (excluding allo and porosity etc.).	wances for loss wastage, surface profil	
	1 set of 25 kg yields ~ 12.5 lit 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) stre	ength must be $> 1.0 \text{ N/mm}^2$.	



Substrate Preparation	General:		
		itable mechanical preparation techniques such lle guns, blast cleaning, scabblers etc. and ace dry condition.	
	For pore / blowhole filling:		
	Blast clean to remove all contaminants	including from within the pores / blowholes.	
	As a levelling mortar:		
	cleaning or equivalent to ensure cer existing coatings are removed and	able mechanical means such as abrasive blast nent laitance, surface contamination and all all blowholes and honeycombed areas are e profiled to achieve maximum bond strength.	
Substrate Temperature	+ 8°C min. / + 35°C max.		
Ambient Temperature	+ 8°C min. / + 35°C max.		
Mixing Ratio	Used as Slurry: A : B = 1 : 4 by weight		
	Used as Mortar: A : B = 1 : 4.5 by weig	ht	
Mixing / 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.		
	Stir Part A (liquid) thoroughly before pouring ~ 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).		
	For a trowelable mortar consistency use about 90% of Part A (~ 4.5kg).		
Application Method / Tools	The surface of the substrate must be pre-wetted to a saturated surface dry condition before application.		
	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 2nd coat of SikaTop [®] Seal 107, applied by brush in crosswise direction to the first application as soon as first coat has hardened.		
	As a mortar:		
	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 (~ 1 A : 4.5 B).		
	Apply the 2nd coat of SikaTop [®] Seal 1 pore / blowhole filling, tightly trowel into	07 as soon as the first coat has hardened. For the pores / blowholes of the surface.	
Pot Life	~ 30 minutes at + 20°C		
Waiting Time / Over	Waiting time between coats:		
coatability	+10°C	~12 hours	
	+20°C	~6 hours	
	+30°C	~3 hours	
	If waiting time period exceeds 24 hours	s, lightly blastclean 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.		
Curing		op [®] Seal-107 immediately after application for communication for communication and to minimise cracking.	
	Use polythene sheeting or similar approved methods.		
	eee perjanene eneemig er ennar appi		
Cleaning of Tools		ent with clean water immediately after use.	



Notes on Application / Limitations	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, is any way.
	Where SikaTop [®] Seal-107 will be visible after completion of the works then the off white colour, which is more aesthetically pleasing, should be used.
	Avoid application in direct sun and/or strong wind. Do not add water in an 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 trafficable finish. Use Sika [®] -1 Finishing Morta for trafficked surfaces or protect with a SikaLatex [®] bonded screed.
	For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating with fixings. These must be accommodated b surface bonding with either SikaDur [®] -31 CF Slow or Sikaflex [®] 11 FC+ etc.
	When used in contact with drinking water, applied material must be air cured for minimum 21 days at 20°C. Protect from direct heat, sunlight, wind and rain.
	When used in contact with drinking water ensure that all associated Sika [®] product and construction materials also comply with the local regulations for drinking wate contact.
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 thi product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the product uses.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemica products, users shall 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 curren knowledge and experience of the products when properly stored, handled an 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 inferren- either from this information, or from any written recommendations, or from any othe 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 refet to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.

All products are manufactured under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.



Sika Abyssinia Chemicals Manufacturing PLC Sebeta, Welete 500m on the Street in front of TOTAL Gas Station P.O. Box 1596-1110, Ethiopia

Phone: +251 113679748 +251 116182605 e-mail: sika@et.sika.com Website: www.eth.sika.com