Sika Seal® -105

Multi-Purpose Water Proofing Slurry

Product Description	A cement base, polymer modified, 2 component, multi-purpose water proofing slurry. Sika Seal [®] -105 combines the crystallization action (pore block) and the water proofing capability of polymer.
	It Consists of special fillers, cement and properly graded aggregates.
Uses	Sika Seal®-105 is used as an economical and easy to apply water proofing slurry, for both external and internal applications in generally wet areas. Sika Seal®-105 is suitable for the following applications: Water/sewage works, sewage treatment plants (such as tanks, digestors, clarifiers, etc). Basements/lift pits. Retaining walls/bridge structures. Sea walls/irrigation channels. Swimming pools. Balconies, kitchens and bathrooms
Advantages	Sika Seal® -105 is part of a complete Sika® System for the economical waterproofing of water containment structures. Sika Seal® -105 offers the following advantages: Pre-batched components (no water added). Multi-purpose water proofing, crystallization and polymer modified cementitious slurry. Impermeable Brush or trowel applied. Good adhesion to sound surfaces. Produced under the exacting standards of Sika®.
Approvals / Tests	For direct contact with drinking and sewage waters, Issued by The Egyptian National Organisation for Water and Sewage. Sika Seal® -105 has been tested as per SCAQMD Rule 1168. Result: VOC Content < 5 g/L
Product Data	
Form	Comp. (A): Liquid Comp. (B): Powder
Colour	Comp. A: White & Comp. B: Gery Colour of mix is light blue White colour available upon request.
Packaging	25 kg units (A+B).
Storage Conditions	Store in dry conditions, protected from moisture and frost.
Shelf Life	12 months from date of production if stored properly in undamaged and unopened original sealed packing.



Technical Data			
Density	Comp. (A+B) = 2. 0 kg/l		
Chemical base	Cement, selected graded aggregates and polymer dispersion		
Substrate Temperature	+5°C minimum / +40°C maximum		
Compressive Strength	After 28 days: 30-35 N/mm ² Note: compressive strength based on mort	(ASTM-C-942-94) tar consistency 1:4.5 by weight.	
Flexural Strength	After 28 days: 8 -10 N/mm ² (ASTM-C-580-94) All results based on quality control. Lab condition to I.S.O.		
Bond Strength	After 28 days: 7-8 N/mm ²	(ASTM-C-1042-85)	
Application Details Mixing Ratio	Slurry (Comp. (A) : Comp. (B)) = 1 : 4 by weight. Mortar (Comp. (A) : Comp. (B)) = 1 : 4.5 by weight.		
Coverage	Approx. 2 to 2.5 kg/m ² for two coats application depending on the surface and consistency required. Minimum two coats recommended on application.		
Surface Preparation	Concrete surfaces must be mechanically cleaned, free from oil grease and loose adhering particles. On "new" or smooth faced concrete, surfaces should be sand blasted to provide an "Open Pore Surface" to enhance the effectiveness of the crystallization process. Non-sand blasted surfaces will affect the performance of the crystallization proce		
	and the bond of the cementitious slurry. All surfaces must be as true and flat as possible. Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.		
Application Mixing	Place three quarters (3/4) of component (A) (liquid) in a suitable mixing container. Add component (B) (powder) to the liquid while mixing. Mechanical mixer must be used to ensure proper dispersion of component (B). After the entire component (B) has been added mix for an additional three minutes. The remaining one quarter (1/4) of component (A) is added during the addition of the component (B) to achieve the desired consistency.		
Application	While the substrate is still in a SSD condition, apply the first coat and leave to harden (4-6 hours). Apply the second coat as soon as possible, after hardening of the first coat, to ensure proper adhesion between layers. For slurry consistency apply with a hard-bristle brush or broom. For the trowelable mortar use a notched trowel. After application of the second coat, finish Sika Seal® -105 by rubbing down with a soft dry sponge. In case of a third coat, scratch the surface of the second coat with the edge of the trowel to provide a mechanical key. In case of needed plaster layer over Sika Seal® -105, broadcasting is recommended to apply a bonding agent.		
Cleaning	Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.		
Waiting Time /	Waiting time between coats:		
Over-coating	+10°C	~ 12 hours	
	+20°C	~ 6 hours	
	+30°C	~ 3 hours	
	If waiting time period exceeds 24 hours, lig	htly blastclean the surface.	

Sika Seal[®] -105 can be over-painted using solvent based primers or coatings. Sika Seal[®] -105 must cure for a minimum of 7 days before over-coating.

Pot Life (at 20 °C)	30 minutes	
Important Considerations	Sika Seal [®] -105 will not bridge cracks or existing joints and has no added flexibilit to overcome micro-cracking in the concrete.	
Curing	As with all cement based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost In severe heat and/or wind, protection of the Sika Seal® -105 is recommended	
	For water tanks and swimming pools, it is essential to cure Sika Top® 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	
Safety Instructions	Wear gloves and goggles.	
Safety Precautions	In contact with eyes or skin, product may cause irritation.	
Ecology	Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.	
Toxicity	Non-Toxic under relevant health and safety codes.	
Transport	Non-hazardous	

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.

Construction



Sika Egypt for Construction Chemicals El Abour City 1st industrial zone (A) Section # 10 Block 13035, Egypt

Tel :+202-4481 0580 Fax :+202-4481 0459 Mob :+2012- 2390 8822/55

Mob :+2012- 2390 882 www.sika.com.eg

