Construction

Sika®-101h

Ready to use crystallizing waterproofing system and moisture seal for mortar and concrete

Product Description	Sika®-101h is a ready to use cement based powder capillary waterproofing system for concrete and mortar to prevent water infiltration or seepage of water in the area of low pressure of concrete structure or any cementitious substrate.
Uses	Sika®-101h forms slurry consistency when mixed with water. When it is applied to the concrete substrate it forms insoluble crystals inside water bearing capillaries and seal against further seepage of water. Sika®-101h blocks the pores in concrete structures such as **:** ■ Basement ■ Reservoirs ■ Sewage water and effluent treatment plant ■ Tunnel and underground subways ■ Foundations ■ Swimming pools ■ Underground parking structures ■ Water tanks
Characteristics / Advantages	It provides the following beneficial properties in post applied waterproofing : ■ Easy to apply ■ Can be used for positive and negative side waterproofing ■ Helps in faster construction schedule ■ Can seal hairline cracks ■ Becomes an integral and homogenous part of the stucture ■ Allows the substrate to breath ■ No added chloride ■ Non-toxic

Product Data

Form

Appearance /Colours	Cement grey, granular powder
Packaging	30 kg. HDPE bags

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.

Technical Data

Chemical Base	Cement with selected additive	
Bulk Density	~1.3 kg/l	
Water: Powder ratio	0.28 – 0.30 by weight	
Consistency	Brushable consistency	
Mixed density	~2.05 kg/l	
Workable time of the system	~ 40 minutes at 30°C	
Mechanical / Physical Properties		
Water Permeability	Impermeable at 3kg/cm^2	(According to IS 2645 & ASTMC 1306-05a)
Toxicity	Non Toxic	(According to IS 6582 1971 & IS 6582 Part 2)
Water Penetration	Penetrates into the concrete upto complete capillary depth where water can penetrate	

System Information

Application Details

Consumption / Dosage	~ 1.2 kg/m^2 per coat. Two coats always recommended. ~1.8kg/m^2 as a dry shake ~0.8% by weight of cement as an additive to concrete
Substrate Quality	Concrete surface must be clean, sound, level and uncontaminated by oil or grease.
Substrate Preparation	Remove cement laitance, formwork-traces and loosely adhering particles by mechanical means. Area of honeycomb concrete and other surface imperfections must be repaired with cement sand mortar. De bonding render must be removed. Wet surface until saturated.

Application Instructions

Mixing	Add powder to given amount of water and stir with low speed mixer for 5 minutes until a lump free smooth brushable consistency is achieved.
Application Method / Tools	During application of Sika® -101h add a liquid applied polymer modified flexible coating system with crystallisation properties. The following procedure shall be adapted for application. For the 1st Coat of Sika® -101h is mixed with water to produce crystalline slurry and to be coated with the help of a brush or roller. When the first coat is in tacky condition Sika® -101h is mixed with water to produce crystalline slurry and to be coated with the help of a brush or roller. Sika® -101h also has multiple application as ■ Dry shake over freshly laid PCC (no waiting time required after PCC for waterproofing) ■ As a waterproofing additive to the concrete
Notes on Application / Limitations	Sika®-101h must be prevented from drying out too rapidly. The freshly applied surface must be protected from rain, strong winds and direct sunshine. Keep moist using damp hessian and covering with polythene sheet for first 3-4 days after application. Protect slurry in pedestrian areas overlaying with 1:3 cement sand screed.
Cleaning of Tools	Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

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.

Construction

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.
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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