

Sika Seal[®] -105

Multi-Purpose Water Proofing Slurry

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| Product Description | A cement based, 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 use water proofing slurry both for external and internal applications in generally wet areas. Sika Seal [®] -105 is suitable for the following applications: <ul style="list-style-type: none">■ 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. |
| Advantages | Sika Seal [®] -105 is part of a complete Sika [®] System for the economical waterproofing of water containment structures. The Sika Seal [®] -105 offers the following advantages: <ul style="list-style-type: none">■ 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[®]. |
| Certificate of Approval | For direct contact with sewage and drinking waters. Issued by The Egyptian National Organisation for Water and Sewage. |
| Product Data | |
| Form | A: Liquid B: Powder. |
| Colour of Mix | Grey Sika Seal [®] -105 white available, Non toxic: Not resistant to sewage. |
| Packaging | 25 kg units (A+B). |
| Storage Conditions | A - Free from frost. B - Protect from moisture Both components should be protected from direct sunlight during storage. |
| Shelf Life | 6 months from date of production if stored properly in original unopened packing. |
| Technical Data | |
| Density | A + B = 2.0 kg/l. |
| Compressive Strength (ASTM-C-942-94) | After (28 days): 30-35 N/mm ² . Note: compressive strength based on mortar consistency 1:4.5 by weight. |
| Flexural Strength (ASTM-C-580-94) | After (28 days): 12-14 N/mm ² . All results based on quality control. Lab condition to I.S.O. |
| Bond Strength (ASTM-C-1042-85) | After (28 days): 7-8 N/mm ² . |



Application Details

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| Mixing Ratio | Slurry A: B = 1: 4 by weight. Mortar A: B = 1: 4.5 by weight. |
| Coverage | Approx. 2 to 2.5 kg/m ² for two coats application (minimum recommended application two coats) depending on the surface and consistency required. |
| Surface Preparation | Concrete surfaces must be mechanically cleaned, free from oil grease and loosely 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 process 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

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| 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 the (B) component. After all of the 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 hardbristle 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. |
| Cleaning | Clean all tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically. |
| Pot Life | 30 minutes at 20 °C. |
| Important Considerations | Sika Seal [®] -105 will not bridge cracks or existing joints and has no added flexibility to overcome microcracking in the concrete. |
| Curing | To ensure the optimal impact of the dual water proofing capability of the Sika Seal [®] -105, it should be moist cured for a minimum of 24 hours to initiate the crystallization process (pore block) and then mist cured for an additional 24 hours. When moist curing is not possible the water proofing capability of the Sika Seal [®] -105 is provided by the polymer modified cementitious slurry. |

Safety Instructions

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| Ecology | Do not dispose of into water or soil, but to local regulations. |
| Transport | Non-hazardous. |
| Safety Precautions | Wear gloves and goggles, In contact with eyes or skin product, may cause irritation. |
| Toxicity | Non-Toxic under relevant health and safety codes. |

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 products when properly stored, handled and applied under normal conditions. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

For further technical information, please consult our technical service department.



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