

ROCK PROOF 555

Multi-Purpose Water Proofing Slurry

PRODUCT DESCRIPTION	A cement base, polymer modified, 2 components, multi-purpose water proofing slurry. Rock Proof 555 combines the crystallization action (pore block) and the water proofing capability of polymer. It Consists of special fillers, cement and properly graded aggregates.
USES	Rock Proof 555 is used as an economical and easy to apply water proofing slurry, for both external and internal applications in generally wet areas. Rock Proof 555 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	Rock Proof 555 is part of a complete Citychem System for the economical waterproofing of water containment structures. Rock Proof 555 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.
Approvals / Tests	For direct contact with drinking and sewage waters, Issued by The Egyptian National Organization for Water and Sewage.
PRODUCT DATA	Comp. (A): Liquid Comp. (B): Powder
Form	
Colour of Mix	Grey White color 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	Comp. (A+B) = 2.0 kg/l
Density	
Compressive Strength	After 28 days: 30-35 N/mm ² (ASTM-C-942-94) Note: compressive strength based on mortar 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	Slurry (Comp. (A) : Comp. (B)) = 1 : 4 by weight. Mortar (Comp. (A) : Comp. (B)) = 1 : 4.5 by weight.
Mixing Ratio	
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 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 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 trowel able mortar use a notched trowel. After application of the second coat, finish Rock Proof 555 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 (at 20 °C)	30 minutes
Important Considerations	Rock Proof 555 will not bridge cracks or existing joints and has no added flexibility to overcome micro-cracking in the concrete.
Curing	To ensure the optimal impact of the dual water proofing capability of the Rock Proof 555, 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 Rock Proof 555 is provided by the polymer modified cementitious slurry.
SAFETY INSTRUCTIONS	
Safety Precautions	Wear gloves and goggles. 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



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