Technical leaflet
Edition MB 07.2017

PerProof 300

Cementitious-based waterproofing system

Description

(PerProof 300) is a breathable, two part, polymer modified, cement based system for waterproofing concrete and masonry
(PerProof 300) has a texture and consistency similar to concrete and may be brushed or sprayed
(PerProof 300) becomes an integral part of the wall and waterproofs the negative or positive side through a crystallization process

Fields of application

Due to its high waterproofing action (PerProof 300) uses:
• Below or above grade surfaces
• Horizontal structural slabs
• Foundations & basements
• Tunnels
• Dams & water reservoirs
• Manholes
• Sewage & water treatment plants
• Interior/exterior
• Spillways

Advantages

• Easy to apply
• Excellent bonding to concrete and masonry
• Pre-packed components for high quality control in site
• Can be used directly to potable water as approved by The Egyptian National Organization for Water and Sewage

Technical data

Color	Grey
Density (at 25°C)	2 kg/lit
Compressive strength at day 28	30-35 N/mm² based on mortar consistency 1:4.5
Flexural strength at day 28	9-10 N/mm²
Bond strength at day 28	8-9 N/mm²

Surface preparation

• Surface must be structurally sound, clean and free of dirt, oil and other contaminants including curing compounds, form release agents, old coatings, paint and efflorescence
• New concrete and masonry must be cured a minimum of 7 days. Provide an absorptive surface on all substrates including precast and formed concrete
• The surface must have an open capillary system for adhesion and for optimum crystalline growth
• Remove form marks and other protrusions
• Concrete honeycombs, cavities, joints, cracks, voids, tie holes and other defects must be opened and routed to sound material then sealed by (PerProof 300) mortar or use (PeRepair) with (PerLatex) for best results
• Follow the recommended methods for repairing defects as suggested by **PerBuild** technical support team
• No active water leaks should be present at the time of application of (PerProof 300)
• Use the (Perapid1) system to seal active leaks

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Directions for use

• **Mixing:**
Pour (PerProof 300) liquid component A in to a vessel then slowly add (PerProof 300) and stir with a hand trowel or a slow mechanical mixer
• **Consumption:**
2-2.5 kg/m2
• **Application:**
Dampen the surface with potable water prior to application. There should be no running or standing water present. A minimum of two coats of (PerProof 300) is applied to the surface for effective waterproofing. Each coat is applied at (1-1.22 kg/m²) which yields approximately 1.2mm thickness per coat.
Load bristles of a cement masons brush with (PerProof 300). Work the slurry into the surface to fill pores and voids. The final brush strokes should be in one direction to produce an even texture and finish.
Allow to cure for 24 hours before applying a second coat. After 24 hours, dampen the first coat and apply a second coat in the same manner as the first coat except that the finish brush strokes should be at right angles to those of the first coat. Apply the second coat at a rate of (1-1.22 kg/m²)
• **Limitations:**
1) Do not apply (PerProof 300) at temperatures above 32°C, unless the surface has been fully saturated with water at the time the application begins
2) Do not fill open tanks, pools, etc. with water for at least 7 days
3) Store product in a dry place
4) Consult the **PerBuild** technical support team whenever a problem rises up

Packaging

(PerProof 300) is supplied in bags of 25 kg.

Storage

Shelf-life is at least 12 months in sealed and undamaged original containers, in areas protected from direct sunlight and frost

Any inadequate storage procedure will lead to unexpected failure of the product or of the packaging

Safety precautions

(PerProof 300) has no danger in transport
Non-toxic and non-flammable
Follow environmental laws and lack of dumping waste material in the soil or waterways

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