



PCC-HYDROSEAL 1000

Cementitious Waterproofing Slurry and Protective Coating

PRODUCT DESCRIPTION

PCC-Hydro Seal 1000 is a two part and polymer modified cementitious waterproofing slurry to waterproof concrete and masonry. It comprises of a liquid polymer and a cement base mix incorporating with special additives.

AREA OF APPLICATION

- Swimming pool and fountains
- Basements
- Retaining walls
- Bathroom floors
- Terraces and balconies

FEATURES / BENEFITS

- Easy to mix and apply / slurry and trowel able consistency
- Protects against concrete carbonation and water penetration
- Good adhesion to sound substrates
- Increased salt and frost resistance
- Non-toxic; suitable for contact with drinking water
- Non-corrosive to steel and iron

TECHNICAL INFORMATION

Appearance:

Part A: White liquid Part
B: Grey powder

Part A + B (mixed): Grey slurry

Density: 1.9 - 2.0 kg/ltr freshly mixed mortar

Compressive Strength (MPa) ASTM C 109:

7 days	25
28 days	35

Flexural Strength (MPa) ASTM C 348:

7 days	2.0
28 days	4.0

Absorption: < 3.0%

Adhesive Strength: 0.7 N/mm²

PACKAGING

PCC-Hydro Seal 1000 packaged in 20 kg sets (Part A: 5 kg and Part B: 15 kg)

SHELF LIFE

6 months from the date of production if stored properly in undamaged, unopened, original sealed packaging, in dry conditions at temperature between + 5°C and + 40°C. Protect from direct sunlight.

COVERAGE

- Waterproofing bathroom, balconies and terraces is 1.0 kg/m² per coat.
- Waterproofing coating up to 1m water head is 1.5 kg/m² per coat.
- Waterproofing coating more than 1m water head is 2.0 kg/m² per coat.
- As per protective coating approx. 2 to 2.2 kg/m² for two coats application depending on the surface and consistency required.

Note: PCC-Hydro Seal 1000 must be applied in minimum of 2 coats. 3 coats may be required in areas of extremely high infiltration.

DIRECTIONS FOR USE

Substrate Quality: Surface must be structurally sound and free of all traces of contaminants, loose or friable particles, cement laitance, sharp edges, oil and grease etc.

Substrate Preparation: General the substrate must be prepared by suitable mechanical preparation techniques such as high-pressure water jetting, needle gun, blast cleaning, scabblers, etc. and properly pre-wetted to a saturated surface dry condition. **For pore/blowhole filling:** Blast clean to remove all contaminants including from the pore / blowholes. **As a levelling mortar:** Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowhole sand honeycombed areas are exposed. The resultant surface must be profiled to achieve maximum bond strength. Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of PCC-Hydro Seal 1000. However, no standing water should be on the surface before application. All intersection of horizontal and vertical surfaces should be profiled with a mortar fillet of 25 mm x 25 mm.

Note: PCC-Hydro Seal 1000 will not bond to surfaces that have been treated previously with a water repellent.

Mixing: Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will be achieved. The consistency of the mix can be altered by reducing the amount of Part A (liquid) to be used. For trowel application, use only 90% of Part A (approximately 4.5 kg). Mix in a clean container by slowly adding Part B (powder) to Part A (liquid) and stirring with a low speed mixer. Use within 30 minutes. **Mixing Time:** 3 minutes

Application: Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden for approximately 4 - 8 hours at temperature above 20°C before applying the second coat. **As a slurry:** Apply the mixed PCC-Hydro Seal 1000 by hand using a hard-plastic bristled brush or broom. Apply in the same direction. Apply the second coat of PCC-Hydro Seal 1000 in crossing direction to the first application as soon as first coat has dried. **As a mortar:** When PCC-Hydro Seal 1000 is applied by trowel (e.g. for a smooth surface finish) product must be mixed with a 10% reduction of Part A. Apply the second coat of PCC-Hydro Seal 1000 as soon as the first coat as hardened. For bore/blowhole filling, tightly trowel into the pores / blowholes of the surface. For floor application, to avoid risk of damage to the first coat, it is recommended that the second coat be applied before 24 hours. If the second coat is applied 12 hours or later, the first coat shall be slightly pre-wetted, preferably by using a fine spray. After the second coat has been applied, a better finish can be achieved by rubbing down with a soft, dry sponge. For more details, please contact our Technical Department.

Pot Life: 30 minutes (at 30°C). Pot life will be shortened at high temperatures.

Cleaning Tools: Clean all the tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

Curing: Generally, not required but precautions should be taken for applications done directly under sunlight and windy condition.

PRECAUTIONS / LIMITATIONS

- Do not use in moderate to heavy traffic bearing surfaces.
- When using PCC-Hydro Seal 1000 in enclosed tanks or reservoirs, make sure that adequate ventilation is available during the application and the total curing period.
- Not recommended for negative side waterproofing where hydrostatic pressure exceed 2.4 m water head.
- PCC-Hydro Seal 1000 should not be applied to actively leaking surfaces.



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