

Permaseal Tanking

Description

Permaseal Tanking is a blend of Portland cements, quality graded aggregates and chemical modifiers which provide a water proof cement based coating system for masonry and concrete. The product is mixed with water on site and applied by brush. The special mix design produces excellent adhesion to construction surfaces and is safe to apply on damp substrates. After hardening Permaseal Tanking becomes a vapour permeable and water pressure tight coating. The standard product is supplied as white and grey.

Uses

- Tanking of basements
- Sealing of tanks and ducts
- Internal and external waterproofing
- Lining of storage tanks for potable water
- Coating of brick and block work

Advantages

- Excellent adhesion to prepared surfaces
- Easy to apply by brush or spray
- Microporous (breathable)
- Durable and long lasting

Preparation

All contact surfaces must be clean and sound. Remove all loose material, laitance, dust and any previous coating. Tap off water pressure where necessary and cut out a 20mm x 20mm fillet at the junction of the wall and the floor. Repair any existing cracks and fractures with Water Stop or Waterproofing Filler.

Priming

No priming is necessary. On dry surfaces, to assist the coating in fully wetting out the substrate, this background should be dampened.



Mixing

Permaseal Tanking is supplied in 25kg buckets. The water requirement to produce the coating is 7.5 to 8.5 litres per 25 kg of dry material. Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is recommended using a slow speed high torque drill with a Mortar Stirrer. Mixing should be continued for three minutes after all the powder has been added to the mixing water to obtain a "creamy" consistency.

Coating

Permaseal Tanking is applied in two coats. Brush or spray apply the first coat in a horizontal direction down to the fillet level. After 24 hours seal fillet with Waterproofing filler leaving weep holes free. Apply a second coat of Permaseal Tanking in a vertical direction covering the fillet with the coating. Remove weep hole taps and seal with Water Stop. If leaks occur, drill 12mm holes adjacent to the leak and seal with Water Stop.

Application Notes

Do not re-temper stiffened material. Permaseal Tanking should not be applied to frost filled surfaces or when temperature is 5°C and falling.

Curing

For external use in warm or windy weather, mist spraying must be used to compensate for moisture loss. If the slurry dries too quickly then cracking may occur.

The moisture loss that occurs on internal applications is called 'sweating'. This is a natural part of the curing process caused by water vapour condensing onto cold surfaces. This will normally occur during the early stages of the drying period, and the level of sweating will vary according to how much ventilation is available, and the type of heating employed.

Initial Set @ 20°C = 330 Minutes

Working Time @ 20°C = Up to 1 Hour

Coverage

Yield: 2kg to 3kg/m²/coat depending on substrate.

Coverage: 8.3m² to 12.5m² per 25 kg unit depending on substrate.

Condensation

Below ground structures are prone to condensation and this is generally caused by poor ventilation and inadequate heating. Even after the initial drying period is over condensation may occur if the right circumstances prevail. Therefore, due consideration should always be given to correct ventilation and heating where necessary.

Finishing And Decoration

Permaseal Tanking Should always be covered by a 10mm coat of sand and cement render or Permagard Renovating Plaster. After this render coat has been applied dot and dab plaster board or a multi finish can be applied.

Any initial decoration should be considered as temporary and restricted to a low cost trade emulsion. Plastic, vinyl or eggshell paints should not be used.

Storage And Shelf Life

Permaseal Tanking will have a shelf life of 6 months in bags and 12 months in pails when kept in dry conditions at a temperature of 5°C to 45°C.

Storage at higher temperatures and high humidity may reduce the shelf life.

Health and Safety

Permaseal Tanking is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.

Full health and safety data are given in Product Safety Data Sheet.



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