

HYDRO SEALANT

Cementitious Surface Waterproofing System

Description

Hydro sealant is a two part waterproofing system incorporating a blend of cementitious powders combined with proprietary activating chemicals and high grade quality aggregate fillers with Hydro Bonding agent.

Hydro Sealant is available in two formulations:

- * Course
- * Fine

Hydro Sealant is a waterproofing system with concrete, cementitious and masonry substrates. It penetrates the surface through moisture absorption and reacts with the free lime forming a hard crystalline material which blocks the pores against water penetration and becomes an integral part of the structure.

It provides positive and negative waterproofing against dampness and ground water as well as hydrostatic pressure.

Typical Applications (see mix sheet for more)

- * Waterproof grout
- * Basements, lift walls, tunnels
- * Sewerage tanks, effluent pits
- * Reservoirs, canals, swimming pools
- * Water towers, silos
- * Subway, manholes
- * Pre-stressed and pre-cast concrete units
- * Koi/fish ponds, Brick or Concrete farm Dams
- * Seals and Decorates Exterior & Interior Walls

Advantages

- * Pre-blended
- * Available in two formulations
- * Ease of applications - brush applied
- * Blocks passage of waterseals pores
- * Can be applied to damp surfaces or green concrete
- * Non-toxic and non tainting

Typical Properties

Colour - Various

Gravity: Hydro bonding agents

Working time: approximately 60 minutes at 20 C

Setting time: Similar to concrete

Over coating: Minimum 12 Hours

Time: Depending on temperature

Application temp: 10C to 35C

Durability: Similar to that of normal Portland Cement

Toxicity: Non-Toxic

Drinking Water: Will not taint water once product has cured.

Yield: One 25kg bag of Hydro Sealant when mixed with 3 liters of Hydro bonding agent and 6 liters of water will yield approximately 16 liters of slurry.

Directions for use

Surface Preparation

- * Surfaces to be treated must be free of dust, oil and grease.
- * Any curing compound, mould, oil, release agent or other surface treatment must be removed. Remove any laitance from concrete and weak delaminating mortar from brickwork / concrete.
- * Brush down and clean off, leaving a sound substrate providing adequate bond for the applied slurry. Preparation is usually carried out using mechanical tools such as angle grinders fitted with surface grinding discs.
- * Static cracks greater in width than 1mm must be chased out, dampened down and repaired with HydroStop which is then coated with a slurry of Hydro Sealant.

Mixing

- * Mix 1 x 25kg bag of Hydro Seal to 3 liters of Hydro Seal Bonding Agent and 6 liters of water to produce a suitable brush on mixture.
- * Using a suitable container, add the powder to the liquid and stir to produce a thick slurry. Whilst applying the product, occasionally stir the slurry to prevent settlement of the solids within the container.
- * Do not re-temper the product once it has started to set.
- * Let mixed product stand for 2 minutes for the Chemicals to Activate. Stir the slurry again and now the product is ready for applications.

Application

- * If there is exposed reinforcement within the treatment area, coat with Hydro Bonding Agent where it enters the concrete, to ensure sound bonding is achieved.
- * Prior to application, Pre saturate with water, (the area to be treated) and ensure any free standing water is removed before commencing with the coating
- * Apply the material in two or three coats, each coat at right angles to the other. For adequate waterproofing protection and results, a minimum coverage of 1.5kg/m² should be specified Note:- Dual coat application is applicable only on water containing units.
- * Allow 12 hours curing between each and subsequent coats.
Wash with water and soft Brush / Broom after at least 12 Hours of last coat then fill with water.

Watch points

- * Protect treated areas from mechanical damage.
- * Protect newly treated surfaces from frost and rain.
- * Use rubber or plastic gloves to protect against cement burns.

Colours

Hydro Sealant is available in selected colours

Packaging

Hydro Sealant is supplied in a kit containing 25 kilograms, powder and one 3 litre bottle of Hydro Bonding Agent or 12.5 kg powder and 1.5litre Hydro Bonding Agent and 2kg powder and 250ml Hydro Bonding Agent.