



CemSeal

2 Parts Crystallization Waterproofing

Description

CemSeal reacts with concrete by a crystallization process to form a permanent slightly flexible waterproofing membrane capable of bridging cracks, and withstand hydrostatic pressure for use in saturated conditions.

The unique and highly effective components or elements in the CemSeal powder initiate a chemical reaction in contact with the free water, moisture and lime present within the pores and capillaries of concrete to form insoluble crystal complexes that block the passage of water. These crystals remain integral in the capillaries thus producing a waterproof watertight structure.

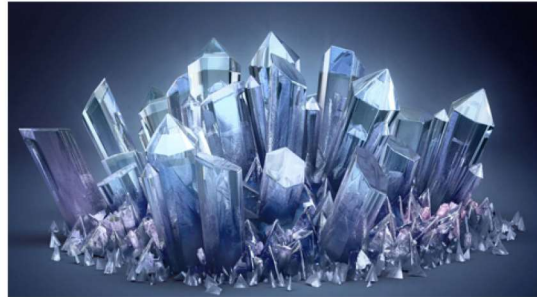
CemSeal is used with water to produce a rigid system used externally to stop water seepage and prior to applying any elastic waterproofing system.

Uses

For application to interior and exterior below grade surfaces against concrete decay and waterborne corrosive salts.

For application in between horizontal structural slabs and toppings against hydrostatic pressure. Seals and protects masonry walls against algae or fungus growth caused by atmospheric pollutants and moisture, and to bridge shrinkage cracks.

To produce a tough and durable waterproofed finishes which can not be easily damaged or worn off including foot trafficking.



Technical Data

Pot Life	approx 3 hours
Initial Set	approx 4 hours
Final Set	approx 5 hours
Compressive Strength 2days	27.8N/mm ²
28days	53.4N/mm ²
Adhesion Strength	1.35N/mm ²
Tensile Strength	4.7N/mm ²
Water vapour transmission	0.00261g/s.m ²



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Other Uses

To form waterproofed underlayments for vinyl and carpet.
Waterproof external walls against water seepage.

Waterproofing of surfaces before laying marble to help prevent efflorescence.

Cementitious waterproofed surfaces re-conditioner for refurbishment of existing finishes.

Waterproofed surface treatment before using wallpaper, gypsum board and ceramic tile.

Suitable Substrates

- 1) Concrete Brickwork
- 2) Precast Surface
- 3) Lightweight Blocks
- 4) Shortcrete

Mixing Application

Ensure that any lumps in the Powder are broken up prior to mixing.

Always add Powder to bonding agent while continuously stirring, mix 2-3 minutes using a mechanical stirrer until a smooth creamy, lump free consistency is achieved.

Pre-wet and saturate until damp the concrete surface with clean water prior to applying. Do not allow pooling or ponding of water.

The mixture is then applied onto the substrate in a stiffing action using a block brush or roller.

Apply in minimum two coats in perpendicular directions or in one coat using a trowel smooth finish. The area to be applied should preferably be pre-marked and the quantity of material pre-calculated to ensure that the required coverage is achieved to ensure waterproofed integrity.

Recommended Coverage

Ground moisture	1.0 - 2.0 kg/m ²
Hydrostatic Pressure	2.5 - 3.5 kg/m ²
Hydrostatic Pressure (negative side)	4.0 - 5.0 kg/m ²

All applications shall be carried out in minimum of 2 coats unless otherwise stated by manufacturer.

Protection

Protection is not obligatory. However if used on external areas, subjected to rain, harsh sunlight or frost, the finished application should be protected for at least 24 hours.

Measures against external hydrostatic pressure

In order to prevent an increase in the level of water pressure, the land around the building must be adequately provided with a drainage system e.g. to cope with changes in ground water levels.

Packaging

25Kg +9L per set

Cleaning up

All tools and equipment should be cleaned immediately after use in water. Hardened material has to be removed mechanically.

Shelf Life

All powder and liquid has a shelf life of 12 months stored in unopened bags or containers in a cool dry elevated place.