



## CAPISEAL

**Deep penetrative, reactive, cementitious crystalline capillary waterproofing system for concrete and mortar surface**

### **Description:**

The CAPISEAL is a cementitious crystalline capillary waterproofing coating system. It contains proprietary blend of portland cement, quartz aggregate and special additives. In the presence of moisture, the active chemicals in CAPISEAL crystalline waterproofing system penetrates concrete and react chemically with free lime to produce water-insoluble nano-crystals. This crystalline growth reduces porosity by blocking capillaries and filling hairline non structural cracks caused by shrinkage or expansion. Unlike metallic and membrane types of waterproofing which only form a surface barrier, CAPISEAL crystalline waterproofing system, in the presence of water, continues producing crystals and lasting imperviousness to water.

### **Primary Applications:**

CAPISEAL crystalline waterproofing system is used for waterproofing against the positive or negative sides of hydrostatic heads of water, for damp-proofing, repairing cracks, plugging holes, sealing wall - floor joints and stopping active leaks in a wide variety of conditions including

- Water tanks, Reservoirs
- Building Basements & foundations
- Swimming pools and water parks
- Sewage and Water treatment plants
- Dams, canals, Tunnels, Harbours
- Retaining walls & sea defence walls
- Concrete pipes

### **Features & Benefits:**

- Suitability to potable water
- Penetrates concrete, seals capillary tracts
- Contains no chloride
- Easy to apply
- Resists chemical attack of sewage and industrial wastes
- Suitable for external and internal applications.

### **Technical Support:**

Durabuild offers a comprehensive range of waterproofing products and coatings. In addition, Durabuild offers technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

### **Technical Properties:**

Parameters	Typical Values
Aspect	Grey coloured free flowing powder
Water/Powder ratio by weight	0.3
Mixed density	1.85 kg/litre
Workability time	45 minutes @ 25°C
Resistance to Positive pressure	>10 bar
Resistance to Negative pressure	>10 bar

## Application Instructions:

### Surface Preparation:

#### Old Concrete

Surfaces must be clean and sound. Remove all oil, dirt, laitance and other contaminants by water blasting. Water blasting is preferred for surface preparation because it mechanically cleans and roughens the surface, is environmentally safer and leaves the surface saturated with water. Surface must be damp for application of CAPISEAL crystalline waterproofing system.

#### New Concrete

After forms are stripped, acid etch or water blast as above to remove form oils and laitance. Surface must be left damp for application on CAPISEAL crystalline waterproofing system. For horizontal surfaces, the crystalline powder can be broadcast on the top surface while concrete is still green @ 1-1.5 kg/sqm. Construction joints, cold joints and non-leaking joints greater than 0.25mm wide must be cut in V-groove shape and filled with CAPISEAL crystalline waterproofing system in mortar consistency.

#### Mixing

2 to 2.25 parts of CAPISEAL powder (by volume) shall be added to 1 part of clean potable water and mixed thoroughly with a slow speed drill equipped with a paddle. For larger batches, mixing shall be done with a mortar mixer. If mixture thickens, it shall be re-stirred to reduce consistency. The average water demand for a fluid consistency is from 28% to 30% (7 to 8 Liters for one bag of 25 Kg). Mix the applying quantities in 30 minutes.

#### Curing

CAPISEAL crystalline waterproofing system application must be kept moist for a minimum of 48 hours. After initial set, moist curing, using continuous water spray is recommended. Treated surfaces shall be fog sprayed 3 to 4 times daily for the 48 hour period. For warmer climates, more frequent spraying may be required. It is important to keep the CAPISEAL crystalline waterproofing system moist to allow the crystal formation to occur. The surfaces shall be protected from foot traffic for 48 hours or heavy traffic for 7 days. Freshly applied CAPISEAL crystalline waterproofing system must be protected from extreme weather conditions such as rain, strong winds, high temperatures and freezing for a period of not less than 48 hours after application. A minimum of 7 days of air curing shall be allowed prior to immersing the surface in water.

#### Estimating:

#### Packing

CAPISEAL is supplied 25kg moisture resistant bag.

#### Coverage

CAPISEAL is approximately 1to 1.5kg /m<sup>2</sup> per application by brush.

#### Storage:

CAPISEAL crystalline waterproofing system concentrate should be stored in protected, dry areas. When left in original unopened package, CAPISEAL crystalline waterproofing system will maintain its design performance characteristics for 12 months.

#### Health & Safety

CAPISEAL crystalline waterproofing system contains chemicals that may cause irritation to the eyes and skin. Goggles, rubber gloves and long sleeves should be worn when working with these products. Read warnings noted on product package and refer to product material safety datasheet (MSDS) prior to use.

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#### Important note :

Durabuild products are guaranteed against defective materials and manufacture and sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Durabuild endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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