



# SEALPROOF CW

## CEMENTITIOUS CAPILLARY/CRYSTALLINE WATERPROOFING

### Product Description

**SEALPROOF CEMENTITIOUS CRYSTALLIZATION WATERPROOFING (CW)** is a crystalline waterproofing formulation of selected blends of cement, fine quartz sand and active chemical constituents providing a lasting imperviousness to water. In the presence of moisture, the active chemicals in SEALPROOF CW penetrate concrete and reacts chemically with free lime to produce insoluble crystals. This product feature is permanently active. The crystalline growth reduces porosity by blocking capillaries and filling hairline non-structural cracks caused by shrinkage or expansion. In the presence of moisture, SEALPROOF CW continuously forms crystals.

### Features

- Ready to use, easy to apply
- Potable water applications
- Very economical
- For internal and external applications
- Durable
- Can be painted over
- For use in contact with potable water
- Excellent adhesion to all cement based substrates

### Application areas

- Water treatment and sewage structures
- Basement walls
- Irrigation tunnels
- Supporting walls and columns
- Tunnels, silos, water tanks
- Foundation slabs inside
- Underground garages

### Processing Data

Mix Ratio (by volume)	3 Part Powder: 1 Part Clean Water
Workability at 23 °C	30 minutes
Setting Time	2-3 hours
Full Cured	12 hours
Shelf Life	No shelf life, store in cool and dry place

### Technical / Performance Data

Colors	Light Gray
Chloride Ion Content	≤ 0.05%
Compressive Strength	3,000-4,000 psi
Bonding	116-120 psi
Modulus of elasticity	≥ 15Gpa
Dry Thermal Cycling	≥ 0.8MPa
Capillary absorption	≤ 0.5kg/m <sup>2</sup> -h <sup>0.5</sup>
VOC	0 g/L
Property	ASTM C928M
Carbonation Resistance	passed
Reaction to fire	class A1
Dangerous Substances	non - toxic materials
Water Permeability	Impermeable up to 404-410 ft. water pressure (Method: CRD-C-48-73)
Chemical Resistance	limited to 15% sulfuric acid (Method : ASTM C267)

### Material Composition

**SEALPROOF CW** is composed of cement, fine quarts, lime and active chemicals. Upon application and curing it does not impose volatile organic compounds.

### Procedure & Guidelines

#### SURFACE PREPARATION

##### GENERAL

All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust, chalk, and any other contaminants that can reduce adhesion.

##### CONCRETE / MASONRY

Cure for at least 28 days before application. Remove loose or excess mortar, efflorescence, laitance and concrete form release compounds that reduce adhesion. Etch or abrasive blast polished or glazed concrete before use on floors.

##### MIXING

Mix 1 part clean water to 3 parts powder. Mix thoroughly with a slow speed drill equipped with a paddle



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### APPLICATION

Wet and dump the surface before applying (2) two coats of Sealproof Cementitious Crystallization Waterproofing by brush or spray. Apply first coating vertically and the second coating horizontally after 6 hours (depending on the temperature of the first application), to fill up voids that was not sealed during the first coating.

For spray application, Sealproof Cementitious Crystallization Waterproofing can be applied with a suitable fine mortar spraying device. For maximum spray pattern it should be possible to adjust of product as well as air pressure and volume. The nozzle diameter should be approximately 4mm.

### CURING

Keep damp for at least 3-5 days and provide suitable protection against extreme weather conditions.

### NOTE:

To activate the crystal and seal all capillaries, spray very low pressure of clean water 3x a day for 3 days on the applied surface to ensure water tightness. (Refer to Method Statement for detailed application).

### Theoretical Coverage

#### Concrete Slab:

1-1.4 kg/ m<sup>2</sup> at 1 coat  
Condition: positive or negative water pressure

#### Concrete Slab:

1 kg/ m<sup>2</sup> at 1 coat  
Condition: moisture only

#### Concrete Walls

1.5 – 2.4 kg/m<sup>2</sup> at 2 coats  
Condition: positive or negative water pressure

#### Construction Joints (vertical/horizontal)

1-1.4 kg/ m<sup>2</sup> at 1 coat  
Condition: water pressure

Product is manufactured based on International Environmental Regulations

**Sealproof CW** is a green revolution product in waterproofing solutions.



### Health & Safety

Please wear rubber or plastic gloves to avoid contact with skin. Please refer to MSDS for other safety information.

Product is for Professional use only.

### Storage / Packaging

**SEALPROOF CW** is available in 25kg polyethylene bag.

This product is nonflammable.

This product must be stored dry, protected from sun and rain. No waterproofing works should be performed if weather is unsuitable. These include heavy rain and moisture.

### Product Limitation

Product should not be applied directly to the substrate that shows any hydrostatic pressure problems that may later cause disbonding.

### Additional Information - Disclaimer

The information and in particular, recommendations relating to the application and end-use of Sealbond products, are given in good faith based on Sealbond's best knowledge and specialty on construction chemical formulations. Products are properly stored and handled in accordance with Sealbond's endorsements. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. In practice, to different materials used, as well as varying working conditions and environments beyond our control Sealbond Chemical Industries Inc. strictly recommend carrying out intensive trials to test the suitability of the product with regards to the required processes and applications. Therefore, any liability for such recommendations or any oral/verbal advice is expressly excluded unless we have acted wilfully or by gross negligence. Sealbond Chemicals Industries Inc. is not liable for installation or faulty installation. It is always the responsibility of the installer/applicator/purchaser to guarantee and certify the installation of materials.

All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product awareness, copies of which will be supplied on request and is free of charge.



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