

## WHITE SAND Crystal Proof

Crystalline Capillary Waterproofing Coating for Concrete

### Description

WHITE SAND Crystal Proof is a single-component, penetrating cementitious powder material which waterproofs and protects new and old structurally sound concrete.

WHITE SAND Crystal Proof is formulated to be mixed with water and applied in the form of coating or mortar to provide an effective waterproofing barrier that highly resistant to hydrostatic pressure.

WHITE SAND Crystal Proof is simply applied by stiff brush or trowel, and can also be applied as a dry shake on wet or newly poured concrete.

### Uses and Key Functions

WHITE SAND Crystal Proof is used for all kinds of concrete structures and basements subject to positive or negative water pressure.

### Features and Advantages

- Excellent barrier to hydrostatic pressure.
- Seals capillary areas and hairline cracks in the cementitious matrix.
- Can be applied to newly poured concrete as a dry shake.
- Effective barrier to carbon dioxide, chloride ions, sulphates, and water.
- Ease of Application, using brush, trowel, or dry sprinkle application.

### Product Performance Properties

Type	Cementitious, premixed powder.
Color	Grey
Wet Density	1.50 kg/l approx
Mixing Water	7.0 kg/20 kg bag
Pot Life	60 minutes
Chloride content	Nil
Application Temperature	Minimum, +5 C

### Directions for Use

#### Surface Preparation

All surfaces must be clean, sound and free from any loosely adhering particles. Cement laitance must be removed. Wire brush, sand- or water-blast or grinding may be used to clean the substrate. Grinding or surface etching using WHITE SAND Concrete Etching System may be used to clean the substrate. All surface cracks or cold joints greater than 1 mm should be routed out to at least a depth of 15 mm, and a width of 15 mm, and sealed with WHITE SAND PLUG. Stop any active water leakages by using WHITE SAND PLUG. Where moss, algae, or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process.

Pre-wet the substrate and allow surface water to dissipate before application.

#### Mixing

To use WHITE SAND Crystal Proof as a coating, add the powder slowly to about 7 kg of clean water during mixing. Mixing water can be reduced to obtain mortar consistency. It is recommended to use a mixing paddle attached to a slow speed electric drill for at least 32 minutes until the material becomes smooth in consistency and slump-free.

#### Application

Mixed WHITE SAND Crystal Proof of slurry consistency is applied to the prepared surface with a high-quality broom, bristle brush or plaster spray equipment. rollers, or spray equipment.

WHITE SAND Crystal Proof in the form of mortar can be applied using a trowel or spatula.

Two coats are recommended for obtaining the maximum performance. Apply the second coat when the first coat has taken the initial set. If first coat has dried out, moisten the surface before applying the second coat.

Recommended thickness is 1 mm per coat.

WHITE SAND Crystal Proof in the form of mortar consistency should be applied in the thickness not more than 10 mm. the surface should be primed with a single coat of WHITE SAND Crystal Proof prior to the mortar application.

Dry Shake can be carried out on freshly poured and leveled concrete. The dusting process of WHITE SAND Crystal Proof should achieve complete and uniform coverage followed by power trowel.

#### Curing

WHITE SAND Crystal Proof should be kept moist during the curing process to allow the process of crystal formation to take place. Therefore, keep the surface protected from strong winds and high temperature, and fog spray the surface with water 3 times daily for at least 3 days.

#### Cleaning

WHITE SAND Crystal Proof should be removed from tools and equipment immediately after use and before initial cure with clean water.

Hardened material can only be removed mechanically.

#### Packaging

20 kg bags.

#### Coverage

- Coverage of 20 kg bag of WHITE SAND Crystal Proof is as follows:
- Coating Slurry: 18 m<sup>2</sup> / 2 coats.
- Mortar: 4 m<sup>2</sup> / 5 mm thick layer.
- Dry Shake: 16 m<sup>2</sup> / single application.
- These above quantities are approximate and are given for estimating purposes only.

#### Shelf Life and Storage

The original bag of WHITE SAND Crystal Proof has a shelf life of 12 months when stored in a dry, shaded place and good warehouse conditions, below 35 °C.



#### Health and Safety

It is highly recommended to use suitable protective gloves and goggles during handling and application.

Avoid unnecessary direct contact of skin or eyes to the material.

Accidental contact of WHITE SAND Crystal Proof to the skin should be washed off immediately with soap and clean water. Eye Irritation or contact should be washed off immediately with copious amount of clean cold water.

For prolonged irritation, seek medical advice.

WHITE SAND Crystal Proof is a non-flammable and not classified as a hazardous material under current legislations. Do not dispose the material into water or soil. For the sound and valid disposal, consult and follow the related local regulations.

#### White Sand Product Quality

Ensuring the achievement of customers' requirements and conformance to national and international standards, all WHITE SAND products are developed and manufactured under the base of a highly quality-oriented Product Development processes, and an independently standardized Quality Management System.

#### Technical support

WHITE SAND provides assistance and technical support to its customers, consultations and technical guidance for many different applications in construction chemicals. Waterproofing systems and protective coatings. Tile adhesives and tile grouts selection. Concrete repair and restoration systems.

#### Additional White Sand products

WHITE SAND manufactures a wide range of high-quality construction chemicals and specialty products

Including the following product groups:

- Surface Treatments and Primers.
- Cement Modifiers for Mortars.
- Adhesives and Tiling Systems.
- Concrete Repair Compounds.
- Waterproofing Materials.
- Protective Coatings and Linings.
- Industrial Flooring Systems.
- Plasters and Finishing Materials.

#### Disclaimer

The information given here is based on the best of our knowledge, good faith, experience and laboratory based results and therefore the results will vary depending on the real time application. Also, the values indicated in this Data Sheet here are subject to  $\pm 10\%$  variance due to multiple factors. The performance of our Product depends on the workmanship/quality of application job at the site. Hence White Sand Company for Industry is not responsible for any sort of claims/disputes arising out of any negative results by using our ranges of products. White Sand Company for Industry is not held responsible for use of this product for applications other than specified and/or adopting any faulty application/curing methodologies. It is the user's responsibility to have through this Technical Data Sheet prior to applying our products and to ensure with White Sand Company for Industry that any product information is still prevailing at the time of application. Also the user must be sure that the product is suitable for the use intended and also applied it as specified while taking care of all precautionary measures. While all the products comply with the properties shown on current technical data sheets/brochures, White Sand Company for Industry does not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.



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