

# HIND CRYSTAL SEAL

CRYSTALLINE CAPILLARY WATERPROOFING FOR CONCRETE AND MORTAR.



## DESCRIPTION

**Hind Crystal Seal** is a capillary waterproofing formulation of proprietary blends of moisture active chemicals, quartz, sand and cement. The chemical contained in **Hind Crystal Seal** formulations requires the presence of moisture for the chemical reaction to take place and in combination with the “free lime”, the chemical in **Hind Crystal Seal** forms long chain complexes which crystallizes in the capillaries. **It conforms to IS: 2645-2003 & ACI 212.3R - 10.**

## USES

**Hind Crystal Seal** protects concrete and mortar making it 100% waterproof. It improves the adhesion between top coat and concrete or mortar. It is used for waterproofing of water reservoir, water tower, tunnels, dams, canals, concrete pipes, water treatment plant, sea wall, bridges and decks etc.

## ADVANTAGES

- Ready for use only by mixing with water.
- Can be applied on damp concrete surface with no standing water.
- Non-toxic and can be applied on Concrete storage tank used for potable water.
- Cost effective waterproofing system.
- The crystallization reaction between **Hind Crystal Seal** with free lime and Calcium hydroxide in cement will form crystal to fully block the capillary in the concrete and mortar. It gives a total and permanent waterproofing to concrete structures in the presence of moisture.
- Can be applied to both positive and negative side protection of water retaining and underground structures.

## APPLICATION

It has to be ensured before application that all concrete and mortar surfaces are clean free from dust, laitance, oil and grease. The surfaces to be pre-wetted, so that it is completely saturated. **Hind Crystal Seal** is to be applied on damp surfaces and there should be no standing water. **Hind Crystal Seal** 10kg (One bag) is to be mixed with 3-3.5 Litre of clean water for 3 (three) minutes using a slow speed mechanical mixer (60 rpm) until a uniform homogenous mix is obtained. Use brush or roller for application. We recommend 2 coats to be applied in interval of 3-4 hours to give better results. **Hind Crystal Seal** is a cementitious based products, and the treated surface with **Hind Crystal Seal** is to be properly cured by covering it with damp cover or moist curing for at least 5-7 days. **Hind Crystal Seal** can be applied immediately on new concrete surface as soon as the formwork has been removed.

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## PROPERTIES

Aspect	Grey Powder
Bulk density gm/cc	1.25
Water Penetration (BS EN 12390 Part 8:2000)	Nil
Water Pressure Head (mtr)	40-50
Corrosion Resistance (pH) (mixed with water)	10 + 1
Particle Size (micron)	40-150
Heat Resistance (ASTM C 1064-86)	Same as Concrete
Service Life	Same as RCC

## COVERAGE

Brushing – 0.70 -1.20 Kg per Sq. Mtr. per Coat depending on the porosity of the surface.

## SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2°C (Min.) and 45°C (Max.).

## PACKING

10 Kg. in HDPE Bag.

## HANDLING PRECAUTION

Hind Crystal Seal is non-toxic but ingestion is to avoided. If contact with eyes occurs, wash well immediately with water and seek medical advice.



### Important note :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.

The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.

Since HINDCON CHEMICALS LIMITED has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.

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