

Product Description

KRYSTAL SEAL is a single component crystalline cement slurry for concrete treatment. When mixed with water and applied onto the substrate, it reacts chemically to form insoluble needle-shaped crystals that fill capillary pores and micro-cracks in the concrete and protect against the passage of water. Unlike the membrane type waterproofing, Krystal Seal becomes part of the concrete therefore it can be used as both positive and negative side waterproofing.



Uses & Applications

KRYSTAL SEAL is suitable for both interior and exterior applications. It can be used in the following area:

- Basements, foundations, tunnels, and other underground structures.
- Swimming pools, water tanks, other water retaining structures.
- Shaft, elevator pit, concrete pipe.
- Reservoirs, dams.
- Concrete deck, roof.

Key Benefits

- Effectively seal hairline cracks.
- Protects concrete against chlorides and corrosion.
- Permanent waterproofing; reactivates in the presence of moisture.
- Non-toxic, therefore suitable for use in potable water applications.
- Breathable – allows transmission of water vapor.
- Can be applied on new and existing concrete.
- Excellent resistance to hydrostatic pressure.

Technical Data

CHARACTERISTICS	RESULTS
Appearance	Grey powder
Bulk Density	1.3 ± 0.05
Mixing Ratio	1 bag (20 kg) : 10 Liters of water
Adhesion to Concrete	>1 MPa
pH	11 ± 1
Pot Life	45 mins

Application Instructions Coating Application

WATERPROOFING SYSTEM

Substrate Preparation

- The substrate should be clean and sound, free of dust loose particles, grease, oil, primers from previous membrane systems or bitumen. Old waterproof membrane should be removed by shotblasting or mechanical means.
- Cracks, holes and honeycombs must be repaired prior to application.
- Saturate the surface with clean water but leave no standing water.

Mixing

- Add powder to given amount of water and stir with low speed mixer for 5 minutes until a lump free smooth brushable consistency is achieved. Mix sufficient material to use within 30-45 minutes.

Application

- Apply mixed of Krystal Seal with brush at the below given consumption rate. Leave the first coat to dry for 3-6 hours before applying the second coat. Apply the second coat in the right direction of the previous coat.

Dry Shake Application

- Use material directly from the bag. Wearing rubber gloves, distribute the powder evenly by hand over freshly poured concrete at the rate of 1.2 to 1.5 kg/m², before final trowelling works. It is recommended to evenly distribute 50% of the powder in one direction with the remaining 50% at right angles to the first application. Release the powder as close to the wet concrete as possible, this will minimize powder loss during windy conditions.

Application	Consumption Rate	Coat	Coverage per set
Coating (Brush)	0.6 – 0.7 kg/m ² /coat	2	15 m ²
Dry Shake	1.2 – 1.5 kg/m ²	-	14 m ²

* Coverage rate may vary due to porosity of surface including application method. Field trials are recommended.

Cleaning

- Tools and equipment should be cleaned whilst screed is still wet using clean water. Hands and skin should be cleaned immediately with clean water.

Curing

- KRYSTAL SEAL should be moist cured for 2-3 days after application.

Curing	
Light Traffic	48 hours
Backfilling	36 hours
Heavy Traffic	5 days
Water Retaining	7 days
Painted over	28 days

Important Notes:

The application of Krystal Seal should be carried out under normal temperature conditions. This product is not suitable for moving joints. Do not apply on dry substrate.

Safety Instructions

Wear appropriate protective equipment such as gloves, safety glasses or goggles, protective clothing during use. In case of eye contact: promptly wash eyes with plenty of water. Continue to rinse for at least 15 minutes and consult physician immediately.

Packing

20 kg. per bag.

Storage & Shelf Life

Material must be kept in-door at room temperature, avoid expose of direct sunlight. Product Shelf life is 12 months in unopened package and under suitable storage condition.

Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

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