

TECHNICAL DATA SHEET

Surface-Applied Waterproofing



Krystol T2[®] Waterproofing System

Product Code: K-220

DESCRIPTION

Krystol T2[®] system is a surface-applied crystalline waterproofing treatment for concrete structures that is used to protect against the ingress of water. It is a dry powder, that when mixed with water becomes a coating that is applied to the inner or outer surface of the concrete structure. Krystol T2[®] is used in conjunction with Krystol T1[®] as a second coat or for coating on existing concrete surfaces for negative side waterproofing.

Krystol T2[®] contains Kryton's unique and proven Krystol[®] technology which reacts with un-hydrated cement particles to form millions of needle-like crystals. These crystals grow in a catalytic reaction, filling the naturally occurring pores and voids in concrete, and permanently blocking the pathways for water and waterborne contaminants. Later, if cracks form due to settling or shrinkage, incoming water triggers the crystallization process and additional crystals form, filling cracks and ensuring that the structure's waterproofing barrier is maintained and protected. The concrete itself becomes the waterproof layer removing the need for any surface treatment.

FEATURES & BENEFITS

- Replaces unreliable exterior membranes, liners and coatings
- Reaches well below the surface and is not affected by surface wear or abrasion
- Self-seals hairline cracks up to 0.5 mm (0.02 in.)
- Reactivates in the presence of moisture
- Waterproofs from any side i.e. positive or negative side (along with Krystol T2[®])
- Treatment may be applied to old or new concrete
- Safe for contact with potable water
- Permanently waterproofs the concrete
- Increases reliability and quality control
- Lowers the cost of waterproofing
- Increased durability reduces building maintenance and repair costs
- Impervious to physical damage and deterioration
- Protects against corrosion
- Superior performance
- CE certified, Structural Repair Products (R3 Category) – EN 1504-3

RECOMMENDED USES

- As a second coat over Krystol T1[®]
- For concrete foundations, walls and slabs on grade
- Elevator pits and equipment pits
- Parking structures
- Swimming pools and water features
- Water towers, reservoirs, storage tanks and water treatment reservoirs
- Rooftops and roof decks

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PROPERTIES

Physical Properties	
Appearance	Gray powder
Bulk density g/cm ³ (lb. /cu. ft.)	1.40
pH (when mixed with water)	12
Plastic Properties	
Working Time (20°C/ 68°F, 50% RH)	60 minutes with continued stirring (slurry) 30 minutes (dry-pack)
Hardening Time (20°C/ 68°F, 50% RH)	4 hours (slurry)

APPLICATION

- **Negative Side along with Krystol T1®**

When applying Krystol T2® as a slurry-based coating on concrete, mix Krystol T2® to a slurry consistency (5 parts powder to 2 parts clean water) and with a natural bristle concrete brush, use an aggressive circular motion to coat the concrete with the Krystol T2® mix at a coverage of 0.8 g/m² when used with Krystol T1® as a second coat on Krystol T1® after 4 hours.

Note: Application should not be made when the surface temperature is below 5°C.

SAFETY

For professional use only. This product becomes extremely caustic when mixed with water or perspiration. Avoid contact with skin or eyes. Avoid breathing dust. Wear long sleeves, safety goggles and impervious gloves.

PACKAGING

Krystol T2 is available in 25 kg reusable pails.

SHELF LIFE

When stored under standard conditions and minimum temperature of 7°C, Krystol T2 has a shelf life of at least 3 years for unopened pails.

WARRANTY

Kryton Buildmat Co. Pvt. Ltd. warrants that Kryton products are free from manufacturing defects and comply with the specifications given in their respective technical data sheet. Because conditions of use, such as site conditions, surface preparations, workmanship, concrete ingredients, weather, structural issues and other factors are beyond the control of Kryton, no warranty can be given as to the results of use. Purchaser agrees to seek the advice of qualified professionals and to determine for themselves the suitability of the products for their intended purpose and assumes all risks. Purchaser's sole remedy is limited to replacement of any product proven defective or at Kryton's option refund of the purchase price paid. THIS LIMITED WARRANTY CONTAINS THE ENTIRE OBLIGATION OF KRYTON. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. KRYTON SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. No representative of Kryton has the authority to make any representations or provision except as stated herein. Kryton reserves the right to change the properties of its products without notice.