

TECHNICAL DATA SHEET

Surface Applied Waterproofing



Krystol Broadcast™

Product Code: K-250

DESCRIPTION

Krystol Broadcast is a dry shake crystalline waterproofing treatment that transforms new flatwork concrete into a permanent waterproofing barrier.

Krystol Broadcast is troweled in during the final finishing to become an integral part of the concrete that replaces the need for conventional membrane waterproofing systems. Krystol Broadcast features a unique fugitive dye to ensure uniform distribution and produces a smooth finish suitable for non-air entrained slabs.

Krystol Broadcast contains Krystol technology. When applied to concrete, Krystol chemically reacts with water and un-hydrated cement particles to form needle-shaped crystals that fill capillary pores and micro-cracks in the concrete and permanently block the pathways for water and waterborne contaminants. Any moisture introduced over the lifespan of the concrete will initiate crystallization, ensuring permanent waterproofing protection.



FEATURES & BENEFITS

- Replaces unreliable exterior membranes, liners and coatings
- Self-seals hairline cracks up to 0.5 mm (0.2 in.)
- Fugitive dye coloring ensures uniform distribution
- Does not change finished slab appearance
- Protects reinforcing steel against corrosion
- Can be used as a wear surface
- Reaches well below the surface and is not harmed by surface wear or abrasion
- Withstands extreme hydrostatic pressure
- Finished concrete may be painted or covered with any floor finish as usual
- Permanently waterproofs concrete
- Lowers the cost of waterproofing
- Reduces the cost of maintenance and repairs

RECOMMENDED USES

- Slabs on grade or below grade
- Parking structures
- Marine structures
- Reservoirs and water treatment plants
- Basements and pits
- Warehouse and commercial floors

The dry-broadcast method is best suited to very thick concrete slabs that will be power-trowelled during finishing. For typical thickness slabs, KIM admixture may be more cost effective.

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PROPERTIES

Appearance	Gray powder
Appearance during application	Green (fugitive dye - fades after application)
Bulk density g/cm3 (lb. /cu. ft.)	1.3 (81)
pH (when mixed with water)	13
Hydrostatic head resistance	140 m (460 ft.)

PERMEABILITY, DIN 1048: Part 5 – Permeability of Hardened Concrete.

Concrete specimens treated with Krystol Broadcast were subjected to hydrostatic pressure of 72.5 psi (500 KPa) for a period of 72 hours. This pressure is equal to 51 m (167 ft.) of water head pressure. Krystol Broadcast treated sample reduced water permeability 60% compared to the equivalent plain concrete.

Metro Testing Laboratories Ltd., 2009

APPLICATION

Before using this product, refer to Application Instruction 3.11 — Waterproofing with Dry-Shake. Krystol Broadcast is a dry powder that is applied by spreading onto the concrete surface just before finishing begins at a coverage rate of 1 kg/m² (0.2 lb./sq. ft.). Proper curing is essential to achieve the performance and benefits of Krystol Broadcast. Cure in accordance with ACI 308.1 guidelines.

LIMITATIONS

Krystol Broadcast is an effective system for rigid structures only and may not reliably seal cracks and joints that experience variable loading or repeated movement. Consult a Kryton representative for project specific recommendations.

SAFETY

Read the Safety Data Sheet (SDS) for this product. For professional use only. This product becomes 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 Broadcast is available in 25 kg (55 lb.) resealable pails.

SHELF LIFE

When stored in a dry enclosed area, Krystol Broadcast has a shelf life of at least 3 years for unopened pails.

WARRANTY

Kryton International Inc. (Kryton) 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.