

KEY BENEFITS

- Permanently waterproofs the concrete
- Increases reliability and quality control
- Lowers the cost of waterproofing
- Increased durability decreases building maintenance and repair costs
- Impervious to physical damage and deterioration
- Protects reinforcing steel against corrosion
- Superior performance enhancing your reputation for high quality work

RECOMMENDED USES

- Concrete foundations, walls, and slabs on grade
- Marine structures
- Elevator pits and equipment pits
- Parking structures
- Swimming pools and water features
- Water towers, reservoirs and storage tanks
- Tunnels, pipes and underground vaults
- Water treatment reservoirs
- Bridge decks, elevated slabs and ramps
- Rooftops and roof decks



PHYSICAL PROPERTIES OF KRYSTOL T1

Appearance	Gray powder
Bulk density g/cm ³ (lb. /cu. ft.)	1.25 (78)
pH (when mixed with water)	13

PHYSICAL PROPERTIES OF KRYSTOL T2

Appearance	Gray powder
Bulk density g/cm ³ (lb. /cu. ft.)	1.35 (84)
pH (when mixed with water)	13

PLASTIC PROPERTIES OF KRYSTOL T1

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)	5 hours (slurry)
	3 hours (dry-pack)

PLASTIC PROPERTIES OF KRYSTOL T2

Working Time (20°C/ 68°F, 50% RH)	60 minutes with continued stirring (slurry)
Hardening Time (20°C/ 68°F, 50% RH)	4 hours (slurry)

HARDENED PROPERTIES

Hydrostatic head resistance	140 m (460 ft.)
Typical rate of crystal penetration	2 mm (0.08 in.) per week
Pull off Strength (ASTM C1583)	450 psi

TECHNICAL DATA SHEET

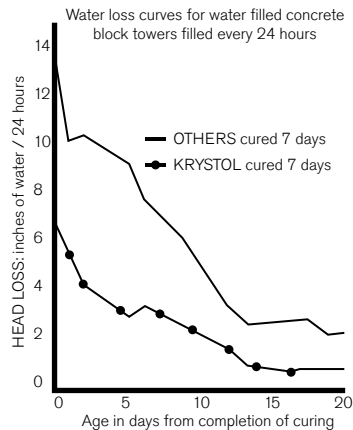
Concrete Waterproofing Surface-Applied

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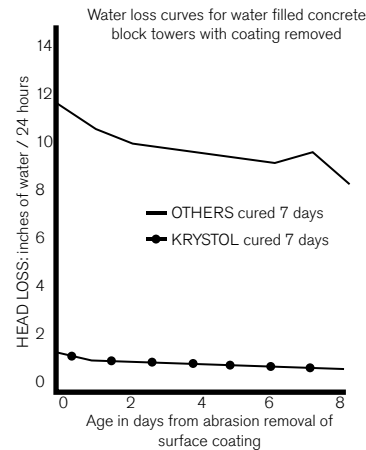


BE SURE. BE KRYTON.

Krystol T1 & T2 coated samples compared with silicate based coating material.



Coating materials then removed from the concrete surface and test results demonstrate in depth penetration of Krystol T1 & T2 treated sample.



Independent testing concludes that Krystol T1 & T2 Waterproofing System is a permanent, in-depth waterproofing treatment.

PERMEABILITY

DIN 1048: Part 5 - Permeability of Hardened Concrete

Krystol T1 treated specimens were exposed to 0.500 MPa (72.5 psi) of hydrostatic pressure for 72 hours. This is equivalent to 51 m (167 ft) of head pressure. Treated samples performed 7x better than the control, only allowing 5.3 mm (0.21 in.) of water to penetrate the sample. These results are very low and indicate excellent resistance to water under hydrostatic pressure.

Kuwait University, Civil Engineering Testing Center, 2004

Krystol T1 & T2 treated specimens were exposed to 0.500 MPa (72.5 psi) of hydrostatic pressure for 72 hours. This is equivalent to 51 m (167 ft) of head pressure. Water permeability of concrete treated with Krystol T1 & T2 was reduced 75% compared to the equivalent plain concrete.

Metro Testing Laboratories Ltd., 2009

CHLORIDE PERMEABILITY

A 10% calcium chloride solution was allowed to pond on the surface of the Krystol T1 & T2 treated samples for 90 days. After 90 days, the acid soluble chloride ion content was determined by Mohr's method (modified ASTM D1411) at various depths. The T1 & T2-treated samples performed 3x better than the control at a depth of 5 mm (0.2 in.), 6x better at a depth of 10 mm (0.4 in.), and 19x better at a depth of 15 mm (0.5 in.).

HBT Agra Ltd., 1993

SAMPLE	Chloride Content Per Cent by Concrete Mass			
	DEPTH BELOW CONCRETE SURFACE			
	1 mm	5 mm	10 mm	15 mm
Control	0.370	0.272	0.204	0.167
T1 & T2	0.188	0.101	0.033	0.009

POTABLE WATER CONTAINMENT

NSF/ANSI Standard 61: Drinking Water System Components – Health Effects

Krystol T1 & T2 have been tested extensively and certified for concrete drinking water con

nt by NSF International.

Kryton International Inc.

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V. 2015-10

APPLICATION

Read Application Instruction 2.11 — Waterproofing with Surface-Application (Brush Method) or 2.12 — Waterproofing with Surface-Application (Spray Method) before using this product. Application should not be made when the surface temperature is below 5°C (41°F). Mix Krystol T1 to a coating consistency (3 parts powder to 1 part clean water). With a concrete brush, use an aggressive circular motion to coat the concrete with the Krystol T1 mix at a coverage of 0.8 kg/m² (1.5 lb./sq. yd.) per coat. To ensure complete coverage with no missed or thin spots, we recommend that you always apply two coats. While it is permissible to use Krystol T1 for both coats, using Krystol T2 for the second coat will give a harder, more durable finish and at a much lower cost. The second coat can be applied as soon as the Krystol T1 has set hard (from 6 to 24 hours depending on conditions). Wet cure for at least 3 days, protecting from frost, rain and traffic for at least 24 hours.

For some applications, a single coating of Krystol T1 is sufficient at a coverage rate of 1.2 kg/m² (2.25 lb./sq. yd.)—Contact your Kryton representative for details.

As part of the Krystol Leak Repair System, refer to Application Instruction 5.12 — Waterproofing Cracks, Holes and Joints.

LIMITATIONS

Krystol T1 & T2 is an effective waterproofing system for rigid concrete structures only and may not reliably seal cracks and joints that experience constant or repeated movement. Consult a Kryton representative for project specific recommendations before specifying Kryton in elevated structures.

Krystol T1 & T2 is not a decorative coating and will change the color of the surface that it is applied to. Consult your Kryton representative for advice regarding applications with specific aesthetic requirements.

SAFETY

Read the Material Safety Data Sheet (MSDS) for this product. 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

- 5 kg (11 lb.) resealable pails
- 25 kg (55 lb.) resealable pails

SHELF LIFE

Krystol T1 & T2 have a minimum shelf life of 24 months for unopened pails, and 4 months for properly resealed 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.