

TECHNICAL DATA SHEET

Concrete Repair



Krystol Repair Grout™

Product Code: K-510

DESCRIPTION

As part of the Krystol Leak Repair System, Krystol Repair Grout is a crystalline concrete waterproofing product that stops the flow of water to permanently repair leaking cracks, holes and joints in concrete, and can also be used to resurface and waterproof defective, damaged or deteriorating concrete. The grout employs advanced fiber technology and shrinkage controlling additives to prevent cracking. Krystol Repair Grout contains Krystol technology. When applied to concrete, Krystol chemically reacts with water and un-hydrated cement particles to form insoluble needle-shaped crystals that fill capillary pores and micro-cracks in the concrete and 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

- Crystalline waterproofing technology
- Simple and easy to use
- Non-shrink crack resistant
- NSF 61 Certified; safe for contact with potable water
- Color matches concrete

RECOMMENDED USES

Use in conjunction with Krystol Leak Repair System to repair any leaking crack, joint or other defect in concrete, or by itself to repair spalled or honeycombed concrete.

PROPERTIES

<u>Physical Properties</u>	
Appearance	Gray powder with fiber additive
Bulk density	1.3 g/cm ³ (81 lb. / cu. ft.)
pH (when mixed with water)	12
<u>Plastic Properties</u>	
Working time (20°C / 68°F, 50% RH)	30 minutes
Hardening time (20°C / 68°F, 50% RH)	1 hour
<u>Hardened Properties</u>	
Hydrostatic head resistance	140 m (460 ft.)
Compressive strength (ASTM C109)	16 MPa (2300 psi) @ 1 day 38 MPa (5500psi) @ 3 days 45 MPa (6500 psi) @ 7 days 49 MPa (7100psi) @ 28 days 52 MPa (7500psi) @ 56 days
Pull off Strength (ASTM C1583)	2.8 MPa (400 psi)

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APPLICATION

Refer to Application Instruction 5.12 - Waterproofing Cracks, Holes and Joints, 5.22 – Patching and Parging Defective Concrete and Masonry, or 5.32 – Waterproofing Pipe Penetrations before using this product. First, stop any flowing water with Krystol Plug. Mix Krystol Repair Grout to a non-sag putty consistency (approximately 4.5 parts of powder to 1 part clean water by volume) and pack the keyway. Additional powder may be used to produce a thicker grout suitable for vertical repairs. Protect application from damage by rain, rapid drying or freezing for at least 24 hours.

Drawings and Specifications:

For section drawings, CAD details and specification language related to this product, visit www.kryton.com/technical-info/ or contact your authorized Kryton representative.

COVERAGE

Krystol Repair Grout covers approximately 15 m per 25 kg pail (50 ft. per 55 lb. pail) when used with Krystol Plug, and 10 m per 25 kg pail (33 ft. per 55 lb. pail) when used without Krystol Plug. Coverage based on filling a 40 mm x 30 mm (1.5 in x 1 in) chase.

LIMITATIONS

Krystol Repair Grout is effective for rigid structures only and may not reliably seal crack or 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 Repair Grout is available in 5 kg (11 lb.) and 25 kg (55 lb.) resealable pails.

SHELF LIFE

When stored in a dry enclosed area, Krystol Repair Grout 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.