

TECHNICAL DATA SHEET

Concrete Repair



Krystol® Waterstop Grout

DESCRIPTION

Krystol Waterstop Grout is a highly durable waterproof grout designed for waterproofing concrete joints, tie holes and penetrations as part of the Krystol Waterstop System. It contains advanced Krystol crystalline waterproofing technology for superior performance.



WHERE TO USE

- Waterproofing concrete construction joints and control joints.
- Filling tie holes.
- Sealing around pipes and other penetrations.
- Repairing poorly formed concrete joints.

BENEFITS

- Contains advanced Krystol® crystalline waterproofing technology
- Very low permeability
- Non-shrink and crack resistant
- Self-seals against leaks.
- Allows flexible scheduling
- Sulfate resistant
- Resists H₂S and sewer environments
- Uses inert, non-reactive aggregates - not affected by Alkali-Silica Reaction (ASR).
- Resists freeze-thaw cycles
- Non-corrosive – does not contain chlorides
- High bond strength
- Pre-blended and easy to use
- Certified to NSF/ANSI/CAN No. 61 – safe for contact with potable water

TECHNICAL DATA

Packaging and yield	25kg (55 lb.) pail – yields approx. 13 L (0.46 cubic feet). 5 kg (11 lb.) pail – yields approx. 2.6 L (0.09 cubic feet)
Color	Concrete grey
Shelf-Life	At least 3 years for unopened pails when stored in a dry enclosed area.
Mix Ratio	4.5 parts powder to 1-part water by volume
Working time (20°C / 68°F, 50% RH)	30 minutes
Hardening time (20°C / 68°F, 50% RH)	1-1.5 hours

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Hydrostatic head resistance (USACE CRD-C48)	140 m (460 feet)
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)

Properties are typical obtained under laboratory conditions. Reasonable variation can be expected on-site due to specific project factors.

APPLICATION

Krytol Waterstop Grout is used with Krytol Waterstop Treatment and Krytonite Swelling Waterstop as part of the Krytol Waterstop System.

General Procedure - Mix Krytol Waterstop Grout to a non-sag putty consistency (approximately 4.5 parts of powder to 1-part clean water by volume) and install to damp and properly prepared concrete. The grout may be mixed by hand or using a drill with grout paddle. Additional powder may be used to produce a thicker grout suitable for vertical joints. Protect application from damage by rain, rapid drying or freezing for at least 24 hours and wet cure for 72 hours (7 days for potable water tanks). For full instruction, see:

- Application Instruction 4.11 – Waterproofing Horizontal Construction Joints (Internal Method)
- Application Instruction 4.12 – Waterproofing Horizontal and Vertical Construction Joints (External Method)
- Application Instruction 4.14 – Waterproofing Crack Control Joints
- Application Instruction 4.16 – Waterproofing Horizontal and Vertical Control Joints (Triple Protection Method)
- Application Instruction 4.17 – Waterproofing Tie Holes and Pipe Penetrations

Drawings, CAD details and specification language: See www.kryton.com/technical-info/ or contact your authorized Kryton representative.

LIMITATIONS

Krytol Waterstop Grout is effective for rigid structures only and may not reliably seal joints that experience 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.

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.