

TECHNICAL DATA SHEET

Concrete Repair



Krystol[®] Repair Grout

DESCRIPTION

Krystol Repair Grout is a high performance grout used to make durable and waterproof repairs for concrete and masonry. It contains advanced Krystol crystalline waterproofing technology for superior performance.

WHERE TO USE

- Concrete and masonry repairs – cracks, spalls, and honeycombs.
- Repairing and restoring concrete cover
- Block wall repairs
- Grouting around pipes and other penetrations
- Use as part of the Krystol Leak Repair system to repair leaking cracks, joints, and holes.



BENEFITS

- Contains advanced Krystol[®] crystalline waterproofing technology
- Very low permeability
- Non-shrink and crack resistant
- Self-seals against leaks
- Fiber reinforced
- Non-corrosive – does not contain chlorides
- High bond strength
- Sulfate resistant
- Resists H₂S and sewer environments
- Uses inert, non-reactive aggregates - not affected by Alkali-Silica Reaction (ASR)
- Resists freeze-thaw cycles
- Good cold weather application performance
- 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	Concrete Repair/Leak Repair – 4.5 parts powder to 1-part water by volume Parge Coat – 4 parts powder to 1 part water by volume Bonding slurry – 3 parts powder to 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

General Procedure - Mix Krytol Repair 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 for vertical repairs. 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 deep repairs or overlays thicker than 25 mm (1 inch), Repair Grout may be extended with clean, graded pea gravel. The gravel's nominal maximum size must not be larger than 1/3rd of the repair depth. Use approximately 4 parts powder to 2 parts gravel plus up to 1-part clean water. Because sources of gravel vary, trial batches may be needed.

For full instruction, see:

- Application Instruction 5.12 - Waterproofing Cracks, Holes, and Joints
- Application Instruction 5.22 – Patching and Parging Defective Concrete and Masonry
- Application Instruction 5.32 – Waterproofing Pipe Penetrations

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

LIMITATIONS

Krytol Repair Grout is effective for rigid structures only and may not reliably seal crack or 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.