

TECHNICAL DATA SHEET

Construction Joints & Details



Krytonite™ Swelling Waterstop

Product Code: K-325-Y-5

DESCRIPTION

Krytonite Swelling Waterstop is a hydrophilic synthetic elastomeric rubber waterstop that uses swelling pressure to seal concrete construction joints and penetrations to stop water in the most extreme conditions. Krytonite has superior performance that swells up to 10x its original size / volume and up to 4x more than competing bentonite and rubber swelling waterstops. For use with regular ground water, salt and sulfate contaminated water. Krytonite is extremely durable and will not deteriorate over time. It can be used by itself as a single protection waterstop or with other components of the Krystol Waterstop System as a double or triple protection for construction joints and penetrations.

FEATURES & BENEFITS

- High-performance swelling up to 10x original volume
- Flexible and easy to install
- Resistant to high hydrostatic pressure
- Extremely durable – will not deteriorate even with repeated wetting and drying cycles
- Innovative trapezoid shape resists dislodgement and allows better concrete consolidation
- Controlled swelling allows for concrete strength development in advance of swelling pressure

RECOMMENDED USES

Use Krytonite Swelling Waterstop to permanently waterproof horizontal or vertical construction joints, pipe penetrations, between precast elements and other concrete joints. Not for use at expansion joints. Suitable for use in sewage and containment structures. May be used in areas with chloride or sulfate contaminated soils and in contact with sea water. Use in conjunction with Krystol Waterstop Treatment or as a replacement for bentonite strips.

PROPERTIES

Physical Properties	
Appearance	Yellow, trapezoid, flexible rubber strip
Dimensions	5 x 20mm (approximately .2" x .8")
Density	1.2 - 1.25 g/cm
Hardness (Shore A)	24 +/- 3
Tensile Strength	> 435 psi (3 MPa)
Performance Properties	
Swelling Performance – Clean Water	≥ 1000%
Swelling Performance – Concrete Water (high pH)	≥ 800%
Swelling Performance – Salt Water (3%)	≥ 300%
Water Pressure Resistance (Modified Din 1048-5)	≥ 0.8 MPa
Hardened Properties	
Hydrostatic Head Resistance	0.8 MPa (265 ft)

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APPLICATION

Before using this product, refer to Application Instruction 4.11, 4.15 or 4.16 (as applicable).

Basic Application Procedure: Using Krytonite Adhesive, or other approved fastening device, adhere Krytonite Swelling Waterstop at or near the center of the construction joint to clean dry concrete surface. For added long-term protection of the outboard reinforcing steel, apply Krystol Waterstop Treatment to the concrete surface first and adhere Krytonite to the treatment when it is dry. Strip-ends should be tightly butted and not overlapped. Avoid rain or immersion in water as this may cause premature swelling. If premature swelling occurs, dry the Krytonite sufficiently to restore its original dimensions and ensure material is properly affixed to the surface before pouring concrete.

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.

LIMITATIONS

Minimum joint cross section is 200 mm (8 in.). Minimum concrete strength is 27.5 MPa (4000 PSI). Apply in dry conditions and keep dry. Do not place near edge. Leave a minimum of 75 mm (3 in.) of concrete cover.

SAFETY

Read the Safety Data Sheet (SDS) before using this product. For professional use only.

PACKAGING

Krytonite Swelling Waterstop is available in 50 m (164 ft.) per box; 5 rolls @ 10 m (32.8 ft.) Up to 60 boxes per pallet.

SHELF LIFE

When stored in a dry enclosed area, Krytonite Swelling Waterstop has a shelf life of at least 10 years.

WARRANTY

Kryton Buildmat Co. Pvt. Ltd. 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.