

TECHNICAL DATA SHEET

Construction Joints & Details



Krytonite™ Swelling Waterstop

Product Code: K-325

DESCRIPTION

Krytonite Swelling Waterstop is a high performance elastomeric waterstop made from hydrophilic synthetic rubber. Krytonite delivers high performance waterproofing in a cost effective and easy to install solution. Krytonite uses swelling pressure to seal concrete construction joints and penetrations to stop water in the most extreme conditions. Krytonite is extremely durable and will not deteriorate over time. Krytonite contains NO bentonite.

Krytonite is designed to replace molded PVC waterstops and bentonite based waterstops. Krytonite can be used by itself as a single protection waterstop or with other components of the Krystol Waterstop System as part of a double or triple protection system.



FEATURES & BENEFITS

- Greater swelling and sealing performance than other waterstops
- Resistant to high hydrostatic pressure
- Flexible and easy to install
- 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
- Standard version (yellow) – Seals even against salt and contaminated sources of water
- Rain-protected version (blue) – performs controlled expansion for wet environments

RECOMMENDED USES

Use Krytonite Swelling Waterstop to permanently waterproof horizontal or vertical construction joints, pipe penetrations, between precast elements and other concrete joints. Use our standard (yellow) Krytonite for all typical waterstop applications – including where salt and other water contaminations are anticipated. Use our rain-protected (blue) Krytonite RP in wet environments where premature swelling is a risk.

PROPERTIES

Property	Krytonite standard	Krytonite RP (rain-protected)
Color	Yellow	Blue
Shape	Trapezoidal	Trapezoidal
Dimensions	5x20 mm (0.2 x 0.8 inches)	5x20 mm (0.2 x 0.8 inches)
Material	Hydrophilic Rubber	Hydrophilic Rubber
Hardness (Shore A) - ASTM D2240	24 +/- 3	35 +/- 3
Tensile Strength - ASTM D412	>3 MPa (435 psi)	>2 MPa (290 psi)
Elongation - ASTM D412	>400%	>400%
Density	1.2 - 1.25 g/cm ³	1.2 - 1.25 g/cm ³

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<u>Swelling Performance</u>		
Clean Water	1000%	500%
Concrete Water	800%	400%
Salt Water (3% NaCl)	300%	Not Recommended
Early Rain Resistance (23°C, 73°F)	2 hours	24 hours
Water Pressure Resistance DIN1048-5 (modified)	≥ 0.8 MPa (265 feet)	≥ 0.8 MPa (265 feet)
Minimum Concrete Cover	65 mm (2.5 inches)	65 mm (2.5 inches)

APPLICATION

Installers must read and follow the applicable Application Instruction 4.15, 4.16 or 4.17. Basic Application Procedure: Using a suitable construction adhesive or other suitable 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. Ends should be tightly butted and not overlapped. Avoid rain or immersion in water as this may cause premature swelling and result in loss of bond to the adhesive. If premature swelling occurs, dry the Krytonite sufficiently to restore its original dimensions and ensure material is properly bonded to the surface before pouring concrete.

DRAWINGS AND SPECIFICATIONS

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

LIMITATIONS

Not for expansion joints. Do not use Krytonite RP in high-salt environments. Apply to a dry surface and keep dry. Minimum concrete cover 65 mm.

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 International Inc. (Kryton) warrants that Kryton products are free from manufacturing defects and complies with the specifications given in its current 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.