

# TECHNICAL DATA SHEET

Concrete Waterproofing Joints

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## Krytonite™ Swelling Waterstop

(Waterproofing System for Construction Joints)

Product Code: K-325Y5

### DESCRIPTION

Krytonite Swelling Waterstop is a synthetic rubber waterstop specially designed for waterproofing construction joints in concrete construction. Krytonite Swelling Waterstop swells up to 1000% of its original volume to seal the construction joint and stop water. Suitable for use with regular ground water as well as salt and sulfate contaminated water, Krytonite is extremely durable and will not deteriorate over time, even when subjected to repeated wetting and drying cycles. Krytonite is fully compatible with Kryton's Krystol Internal Membrane (KIM) Admixture, and is a part of the Krystol Waterstop System (KWS).

### FEATURES

- High-performance swelling – even in contaminated water
- Flexible and easy to install using Krytonite Adhesive
- 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.

### PHYSICAL PROPERTIES

Appearance	Yellow, trapezoid, flexible rubber strip
Dimensions	5 x 20mm (approx .2" x .8")
Odor	Odorless
Density	1.2 - 1.25 g/cm <sup>3</sup>
Hardness (Shore A)	24 +/- 3 sh A
Tensile Strength	>3MPa

Kryton Buildmat Co. Pvt. Ltd.  
136 - 137, Centrum Plaza, Golf Course Road, Sector - 53, Gurgaon, Haryana 122002 | TEL +91 124 4381140/41 | WEB kryton.in

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**For Supplies please contact:**  
**Bils Innovations (India) Pvt. Ltd.**  
**Delhi, India**  
**+91-11 42175807 , +91 9582307311**  
**Online Shop @ [www.bilsinnovations.com](http://www.bilsinnovations.com)**

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### PERFORMANCE PROPERTIES

Swelling Performance in clean water	1000%
Swelling Performance in concrete water	800%
Swelling Performance in salt water	300%

Water Pressure Resistance (Modified DIN 1048-5) >0.8 Mpa (8 bar)

### APPLICATION

**Before using this product, refer to Application Instruction 4.15 – Waterproofing Construction Joints (Dual Protection – Internal Swelling Method) or AI 4.16 – Waterproofing Horizontal & Vertical Construction Joints (Triple Protection Method) for detailed application instructions. Basic Application Procedures:** Using Krytonite Adhesive, adhere Krytonite Swelling Waterstop, at or near the center of the construction joint, to the 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. 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 adhesion before pouring concrete.

### LIMITATIONS

Minimum joint cross section is 200 mm (8 in.). Minimum concrete strength is 27.5 MPa (3000 PSI). Apply only 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 Material Safety Data Sheet (MSDS) / Safety Data Sheet (SDS) before using this product. For professional use only.

### PACKAGING

50 m (164 ft.) per box; 5 rolls @ 10 m (32.8 ft.) Up to 60 boxes per pallet.

### SHELF LIFE

Krytonite Swelling Waterstop should be stored under cover, clear of the ground. Protect the materials from all sources of moisture and frost. Shelf life is 2 years.

### WARRANTY

Kryton Buildmat Co. Pvt. Ltd. (A Unit of Kryton, Canada), warrants that its products are free from manufacturer's defects and, when applied in accordance with the current specification application instructions will perform as so stated in its product literature. Because methods and conditions of use are beyond the control of Kryton, no guarantee, expressed or implied can be given as to the results of application. Liability of Kryton shall be limited to replacement of materials proved defective or, at its option, refund of the purchase price of the product.

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