



Waterproofing Construction Joints (Swellstrip Method)

DESCRIPTION

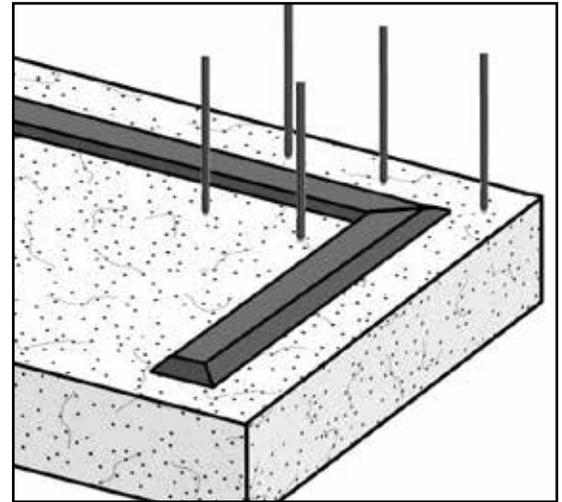
Krytonite Swelling Waterstop is specially designed for sealing construction joints in concrete construction. Krytonite is a flexible hydrophilic swelling waterstop that is fully compatible with Kryton's Krystol Internal Membrane (KIM) Admixture System.

SAFETY PRECAUTIONS

Read the Material Safety Data Sheet (MSDS) before using this product.

PLACEMENT LOCATION

- Krytonite is NOT for use at expansion joints. Use Krytonite at construction joints, around penetrations, between precast elements and other places where concrete joints occur.
- Krytonite should be placed at or near to the center of the construction joint. This will typically be between the rows of rebar. Leave a space between Krytonite and rebar of at least 25 mm (1 in.) to prevent void spaces.
- **Leave a minimum of 75 mm (3 in.) of concrete cover.** Installation too close to the outside edge of the concrete may result in damage to early age concrete if immediate swelling should occur.

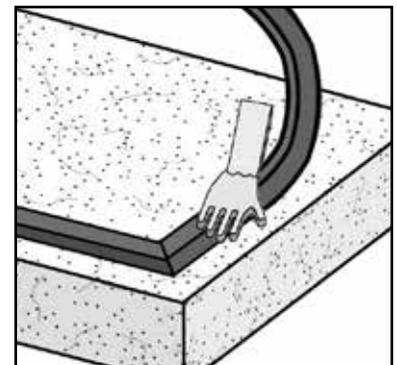
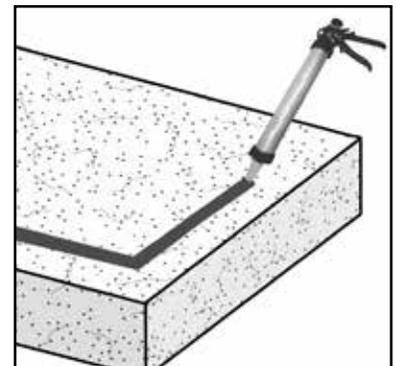


STEP 1: SURFACE PREPARATION

1. Remove dust, dirt and loose debris by air blasting or sweeping.
2. Install in dry conditions only. Installation during heavy rain or in contact with water can result in premature swelling of the strip, which must be avoided.
3. Protect the installed Krytonite from heavy rain or flooding until concrete is poured. If premature swelling occurs, Krytonite must be dried to restore its original dimensions before pouring concrete.

STEP 2: INSTALL KRYTONITE USING ADHESIVE

1. For vertical and horizontal applications, apply a thick bead of Krytonite adhesive to the concrete surface where the Krytonite is to be installed. There must be enough adhesive so that when the Krytonite strip is pressed into the adhesive it squeezes out from the sides and does not leave any void between the Krytonite strip and the concrete. Typical adhesive coverage is 8-10 meters (26-32 feet) per tube with a bead size of 6 mm (1/4 in.). Rough surfaces will require more adhesive.
2. Immediately press the Krytonite strip into the adhesive – unrolling the coil as you progress. Do not allow time for the adhesive to form a skin.
3. Cut Krytonite to length using scissors. Strip ends should be tightly and squarely butted and not overlapped. Mitre corners by cutting both strips at an angle as illustrated.
4. Allow adhesive to dry before pouring concrete.





BE SURE. BE KRYTON.

STEP 3: APPLY KRYSTOL WATERSTOP TREATMENT

(RECOMMENDED)

1. For added long-term waterproofing performance and to protect outboard rebar from corrosion, crystalline technology is incorporated into this waterstop system by applying Krystol Waterstop Treatment to the joint location.
2. Carefully follow the instructions on the Krystol Waterstop Treatment product label to mix Krystol Waterstop Treatment and apply to the concrete on both sides of the Krytonite strip, but do not apply over the Krytonite strip. The Kryton Waterstop Treatment must extend at least to the edge of the joint location.
3. Note that you may alternatively choose to apply Krystol Waterstop Treatment first and delay application of Krytonite until closer to the time of concrete pour. In this case you will be applying Krytonite over the Krystol Waterstop Treatment, therefore be sure that the Treatment is dry and free from dust or loose materials.

STEP 4: POUR AND CONSOLIDATE THE CONCRETE

1. Pour concrete directly over the Krytonite using good placement practices. Take care not to dislodge the Krytonite installation during concrete placement. Do not drop concrete from a great height. If placement is by shotcrete method, avoid shooting at the side of the Krytonite strip.
2. Properly consolidated concrete is the key to success. Be sure to vibrate all construction joints in accordance with American Concrete Institute Guideline ACI 309R – Guide for Consolidation of Concrete. Be sure that vibration equipment can reach the bottom of concrete forms to fully consolidate concrete at wall-slab joints.
3. In order to prevent drying shrinkage cracking, wet-cure the concrete or apply a curing compound in accordance with American Concrete Institute Guideline ACI 308R – Guide for Curing Concrete.
4. Shotcrete must be placed by ACI certified nozzlemen following procedures in accordance with ACI 506R – Guide to Shotcrete.

