



At the Lab. In the Field.
By Your Side.

INSTRUCTIONS FOR INSTALLING THE KRYSTOL™ CRACK REPAIR SYSTEM



CONCRETE
WATERPROOFING

TECHNICAL BULLETIN #101

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QUESTIONS: 1-800-267-8280 or www.kryton.com

This Technical Bulletin outlines the materials and procedures used to repair leaking cracks, holes and joints in concrete construction. Follow these instructions exactly to achieve success 100% of the time.

SURFACE PREPARATION

Cracks, joints and holes shall be prepared as described in Step 1 below. However, the flat concrete surface must be prepared by removing all foreign matter, including dirt, laitance, efflorescence, paint, sealers, plaster or any other contaminate which may impair the absorption of the waterproofing chemicals into the concrete. Very smooth or plugged surfaces must be opened by sand-blasting or wet-blasting. Concrete must be sound. Remove all rock pockets and honeycombing and repair with Krystol Bari-Cote. (See Krystol Bari-Cote Technical Data Sheet)

For more detailed surface preparation instructions, see Technical Bulletin No.170.

LIMITATIONS

· Do not use Technical Bulletin #101 to repair cracks or joints that are subject to movement.

MATERIALS

· **Krystol T1™, Krystol T2™, Krystol Bari-cote™ Krystol Plug™**

(you will require approx. one 55lb.(25kg) pail each of T1, Plug and Bari-cote for every 100 lineal feet of crack)

- Clean water source
- Mixing Bucket and mixer
- Chipping Hammer with 1" square chisel blade
- 1"wide margin trowel
- Natural Bristle Concrete Brush

SAFETY PRECAUTIONS

Cementitious compounds become caustic (pH13) when mixed with water or perspiration. Avoid contact with skin and eyes. Avoid breathing dust.

Wear safety goggles, impervious gloves and long sleeves. See the material safety data sheet for more information.

TECHNICAL BULLETIN

STEP 1: PREPARE THE CRACK/JOINT/HOLE

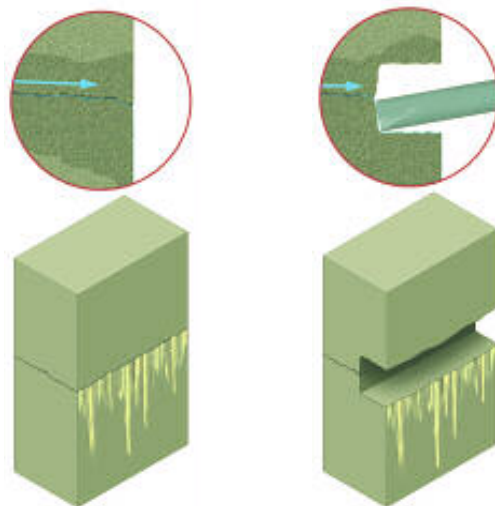
1. Using a 1" (25mm) wide chisel, chip a 1" wide chase along the entire length of all cracks to a depth of 1.5" (38 mm). Do not use a saw to cut the sides of the chase. The chase must be square shaped. Do not form a V shaped chase.

2. Clean the chase, removing all dust and loose concrete.

3. Surfaces to be treated must be pre-wet to a saturated-surface-dry (SSD) condition. Do not leave any standing water.

IMPORTANT NOTE: A saturated surface-dry (SSD) condition is extremely important to your success. The concrete must be completely saturated with water to allow the Krystol™ chemicals to penetrate deeply and react. The outer surface, however, must be only slightly damp, so as not to dilute and weaken the bond of the Krystol application.

Figure 1: Chisel and prepare the crack



The Kryton Group of Companies.

8280 Ross Street, Vancouver B.C. Canada V5X 4C6 Tel.: 1-604-324-8280 Toll Free: 1-800-267-8280 Fax: 1-604-324-8899 E-mail: info@kryton.com Web: www.kryton.com

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STEP 2: STOP THE FLOWING WATER

1. Mix KRYSTOL PLUG to a putty consistency (4 parts powder to 1 part water). Mix only enough material as can be placed in 1 minute.
2. Using a gloved hand, press the putty into the chase stopping the water in that spot. Hold until set.
3. Repeat this procedure, working from one end of the crack to the other until all flowing or seeping water has been completely stopped.
4. The KRYSTOLPLUG should fill approximately one-third of the depth of the chase.

STEP 3: INSTALL KRYSTOL T1™

1. Mix KRYSTOL T1 to a very dry putty consistency (approximately 5 parts powder to 1 part clean water).
2. Ensure that the chase is in an SSD condition.
3. Pack the KRYSTOL T1 into the chase to a thickness of 1/2" (13 mm) over the KRYSTOL PLUG.
4. The chase should now be two-thirds full.

STEP 4: FINISH SMOOTH WITH BARI-COTE

1. Mix KRYSTOL BARI-COTE to a putty consistency (approx. 4 parts powder to 1 part clean water). Mix only as much as can be placed in 15 minutes.
2. Fill the rest (outer third) of the chase flush to the surface.

STEP 5: APPLY T1/T2 SLURRY COATS

1. Mix KRYSTOL T1 to a slurry consistency (5 parts powder to 2 parts clean water).
2. Ensure that the concrete is in an SSD condition.
3. With a concrete brush, use an aggressive, circular scrubbing motion to slurry coat the repair area, extending at least 8 inches to either side of the repair. It is highly recommended that the entire wall, floor and/or ceiling be covered with the slurry coating. Apply at 0.8 kg/m² (2lbs./yd²).
4. After the KRYSTOL T1 application has set hard (generally 3 hours), apply a second slurry coat of KRYSTOL T2 over the KRYSTOL T1. Mix in the same proportion and apply at the same rate of coverage.

Protect the application from rain until set hard. Cure by intermittently wetting with clean water. Do not allow the repair to freeze.

Figure 2: Install Krystol Plug

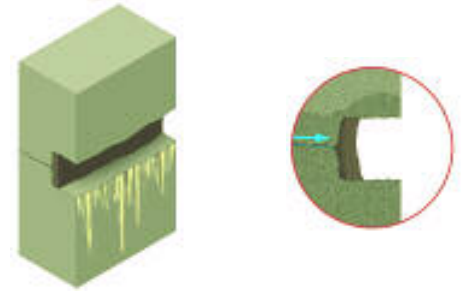


Figure 3: Install Krystol T1

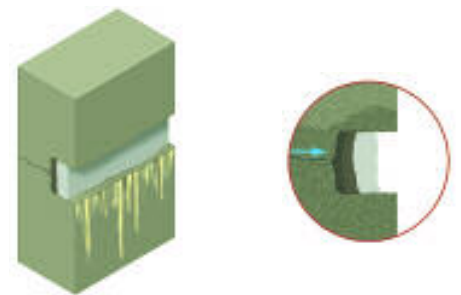


Figure 4: Install Krystol Bari-Cote

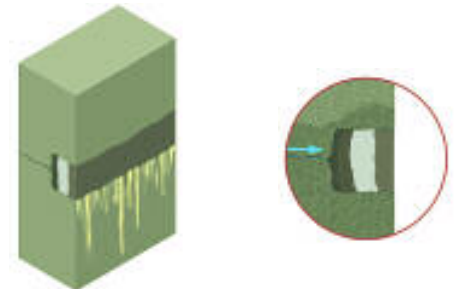


Figure 5: Install Krystol T1 & T2 Slurry Coats

