



Water Leaking Repair Services

• Crack Repair

DESCRIPTION: This system is used to make waterproofing leaking cracks, joints and holes in concrete; it replaces other less efficient crack repair systems. It also protects the concrete from every side even under high hydrostatic pressure

LIMITATIONS: This repair system works only on firm subjects, which means that it cannot fix cracks in moving subjects. Actually, these moving cracks can only be fixed with more flexible systems as in urethane injection. You should be careful when fixing a concrete where the cracks are too close to each other and the temperature shouldn't be less than 4°C. Do not forget to contact your CWP representative for any help

SAFETY PRECAUTIONS: This product is for professional use only, so read carefully the Material Safety Data Sheet. It can be caustic if you mix it with water or perspiration. Keep away from skin or eye contact and breathing its dust. Always wear safety goggles, long sleeves and gloves.

Step 1: Prepare the crack or joint

Important : Make sure that you fix the whole crack, because if you only fix the place where it's leaking that will cause a new leaking in another place in the crack.

- Use a 25mm square chisel to make a chase along the crack:
its depth should be 40mm. This shape is important to the success of your work. In case the concrete breaks apart you'll have to dig deeper until arriving to 40mm.
Tip: In order to have the best and the most productive result, put the chisel about one inch ahead of the surface of the crack and press back towards the chase. Chisel to the full depth which means 40mm.
- Clean the chase with water, you can use a vacuum to remove dust, debris or water.
Tip: Wire brush both of the sides of the repaired place; this will give a better adhesion for Krystol T1 coating

Step 2 : If you don't witness any leaking you can skip this step.

- Use cold water to mix Krystol Plug to a putty consistency (knowing that 4 parts of powder need 1 part of clean water).
- To block the water, press the putty in the chase and compact it very well. Do not forget to wear gloves. Try to not move the plug or it will break apart.
- Repeat this process until the water is totally blocked.

Tip: When there is a lot of water, use a robber hose and install Krystol Plug around it. The hose will leave a hole and it will be easier to plug it with a single portion of the material.

Important: The plug must not fill more than the third of the chase. Its thickness shouldn't be more than 13mm. Grate any excess of Krystol Plug so that 25mm minimum of the space remains in the chase. In fact Krystol Plug should not remain on the sides of chase to facilitate the bonding with the concrete. Make sure that all water leakage is stopped before proceeding.

Step 3:

- The chase should be in SSD condition. Moisten it then remove any trace of water before proceeding.
- Mix Krystol Grout to a rigid putty consistency:
Mix 3 parts of powder with 1 part of clean water. Continue to add powder until you obtain a good mixture; it will seem a bit dry at the beginning but keep mixing and it will become smoother.
- Put the Krystol Grout into the keyway for it to wash out the surface.
- Be careful from damage caused by the rain or from rapid drying or freezing.

Important: Mix a quantity of material that you'll use within 20 minutes and beware that stirring the mixture will restore the plasticity. Working time will decrease when the temperature increases. Do not add a lot of water and especially when the material has set because it will cause cracking.

1-Mix Krystol T1 with a fluid paste (knowing that 3 parts of powder need 1 part of clean water). Make a mixture that will be used within the next 30 minutes.

2- Make sure that the concrete is in SSD condition.

3- To apply Krystol T1 scrub it in a circular way with a concrete brush coating over the repair extending maximum 15cm in each side and put only 0.8 kg/m. Its thickness should be between 1 and 2 mm.

Tip: The entire surface should be coated with Krystol T1. Consult Application Instruction 2.11 — Waterproofing with Surface Application (Brush Method) or 2.12 — Waterproofing with Surface Application (Spray Method) for further information.

4- Keep the repair from drying out, cover it with plastic to prevent water loss. Once the coating becomes harder moisten the surface with water. The repair should be protected against frost and rain for 24 hours.

TOOLS & MATERIALS

Krystol Plug

Krystol Grout

Krystol T1

Chipping hammer with 25 mm (1 in.) square blade chisel

Clean water source

Mixing bucket

Margin trowel

Natural bristle concrete brush