



APPLICATION GUIDELINES

PLUGGING INSTRUCTIONS

1) **PREPARATION:** Rout out crack or hole by chiseling or chipping to a minimum depth of 25 mm. Form a square or dovetail shaped space. Flush away all loose materials and dirt from the cavity with water and a stiff brush.

2) **MIXING:** Add 1 part water to 3.5 parts SUPERSHIELD CRYSTALPATCH by volume and mix to a consistency of stiff putty. Mix only the materials that can be used within 3 minutes.

3) **PLUGGING:** Form plug with gloved hand. Place plug (once the mix starts generating heat) into cavity pressing firmly until plug is hard. When sealing cracks, begin at the highest point and work down.

Note: Where there is a high volume of water flow due to extreme hydrostatic pressure, a bleeder hose may be necessary to relieve the water pressure while sealing the repair area. Use the following procedures:

a) With a concrete chisel and hammer cut open a cavity at the point of greatest water flow.

b) Place a stiff section of hose or pipe into the cavity and secure in place with SUPERSHIELD CRYSTALPATCH to force water through the hose. This relieves the pressure so that the area can be patched. Allow a minimum of 10 hours for hardening.

c) The bleeder hose has to be removed and patched only after injection grouting with SUPERSHIELD CRYSTALGROUT (Refer CRYSTAL GROUT Datasheet).

PATCHING INSTRUCTIONS

1) **SURFACE PREPARATION:** Rout out faulty concrete until sound substrate is reached. Remove

all loose materials from area and saturate with clean water. Allow water to be absorbed into the concrete, then remove excess water.

2) **MIXING:** For quick repairs to concrete or masonry, add water to SUPERSHIELD CRYSTALPATCH (1.5 parts water to 4 parts powder by volume). Mix to a workable mortar consistency and trowel as required. For large repairs, mix 1 part SUPERSHIELD CRYSTALPATCH with 2 parts mason sand or small aggregates of required size.

CURING

A misty fog spray of clean water must be used for curing the SUPERSHIELD CRYSTALPATCH treatment after 18 hours of application. Cure the treated surface for three days (twice a day). Frequent curing is required for hot climates. The freshly applied SUPERSHIELD CRYSTALPATCH should be protected from the direct rain for at least 12 hours after application.

HEALTH AND SAFETY

SUPERSHIELD CRYSTALPATCH contains chemicals, which may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during handling of this product. If product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms prolong.

STORAGE

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

PACKAGING

Available in 25 kg (55.1 lb) Pails and 25 kg (55.1 lb) PE-lined paper bags.