

Delta Patch'n Plug

Quick setting hydraulic cement

Description

DELTA PATCH'n PLUG is a specially designed, fast-setting, non-shrink, high-bond-strength, hydraulic cement compound for concrete patching and repair. DELTA PATCH'n PLUG stops flowing water in seconds and is used to seal cracks, tie holes, and other defects in concrete. The high performance characteristics of DELTA PATCH'n PLUG are enhanced by DELTA's unique crystalline waterproofing technology.

Recommended For

- Stopping an active flow of water through cracks.
- Repair of concrete substrates before the application of Delta coating materials.

Advantages

- Single component (simply add water)
- Fast setting: around one minute at 21°C (water temperature will also directly affect set time)
- Excellent structural strength
- As durable as the masonry and concrete to which it is applied.
- Non-metallic (won't rust or deteriorate)
- Non-toxic

Packaging

4kg, 16 kg buckets.

Storage

- Must be stored dry at a minimum temperature of 7°C.
- Shelf life is one year when stored under proper conditions.

Coverage

One 16 kg bucket of DELTA PATCH'n PLUG will produce 0.012 m³ of mortar.

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 rout (do not use a "V" shaped rout). Flush away all loose materials and dirt from the cavity with water and a stiff brush.
2. **Mixing:** Add clean water to DELTA PATCH'n PLUG and mix to the consistency of a stiff putty. Do not mix more than can be used in 1 minute. For best results, water temperature should be approximately 15°C - 20°C .

Workable Consistency: 1 part water with 4 parts DELTA PATCH'n PLUG by volume

3. **Plugging:** Mix as above and form plug with gloved hand to desired shape. Place plug 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. Follow these steps:

- A. With a concrete chisel and hammer (or chipping gun), 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 DELTA PATCH'n PLUG force water through the hose. This relieves the pressure so that the area can be patched. Allow a minimum of 24 hours for hardening.
- C. Remove bleeder hose and plug remaining hole.

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 fast repairs to concrete or masonry, add water to DELTA PATCH'n PLUG powder (1.5 parts water to 5 parts powder by volume). Mix to a workable mortar consistency and trowel on as required. For large repairs, mix 1 part DELTA PATCH'n PLUG with 2 parts sand or small aggregate (or 10mm minus crushed stone). Maximum ratio is 10.5 kg to one 16 kg bucket of DELTA PATCH'n PLUG. Where increased bonding is required, use DELTA ADMIX 2000 (or suitable bonding agent) as directed.

Abnormal Temperatures

Set time is affected by temperature. When ambient temperature exceeds 30°C, it is recommended that the mixing water be chilled so that the as-mixed temperature of DELTA PATCH'n PLUG does not exceed 21°C. When ambient temperature is lower than 15°C it is recommended that the mixing water be warmed.

Safe Handling Information

DELTA PATCH'n PLUG is alkaline. As a cementitious powder or mixture, it may cause significant skin and eye irritation. Wear eye protection. If dry powder or wet mixture gets into eyes, flush immediately and thoroughly with water and seek medical aid. Wear a suitable mask where there is potential for generating dust. If DELTA PATCH'n PLUG is ingested, do not induce vomiting, drink two glasses of water and obtain immediate medical attention.

**Delta Coatings
& Sealants**

