



PATCH'N PLUG

PATCHING & RESURFACING

Concrete Waterproofing

Description

XYPEX PATCH'N PLUG is a specially designed, fast-setting, hydraulic cement compound for concrete patching and repair. Patch'n Plug stops flowing water in seconds and is used to seal static cracks, tie holes, and other defects in concrete. The sealing performance characteristics of Patch'n Plug are enhanced by Xypex's unique crystalline waterproofing technology.

Recommended for:

- Stopping an active flow of water through static cracks and defects in substrate
- Repair of tie holes, honeycombs and rock pockets
- Repair of leaking or faulty constructions joints
- Sealing around pipe penetrations

Advantages

- Single component (simply add water)
- Very rapid setting
- Contains Xypex's unique crystalline chemistry for self-healing of cracks and other defects
- Quick return to service of water holding structures
- Cement based – compatible with concrete and masonry substrates
- Non-toxic

Packaging

Xypex Patch'n Plug is available in a variety of sizes. Contact your local dealer or representative for details.

Storage

Xypex products must be stored dry at a minimum temperature of 7°C. The product should be used within its shelf life for optimum technical performance, which is one year when stored under proper conditions.

Coverage

One 25kg pail of Xypex Patch'n Plug will typically produce 0.0141cu. metres of mortar

Performance Testing

Xypex Patch'n Plug has been specifically formulated as a fast-setting concrete repair material with the added ability to rapidly stop flowing water and permanently seal leaking defects in the substrate. Patch'n Plug has been tested by various independent laboratories for plugging leaks, setting time, compressive and bond strengths.

Please contact the Technical Services Department of Xypex UK for specifics of the manufacturer's testing.

Plugging Instructions

1. **PREPARATION** Chip out crack or other defects to a depth of 37mm and a width of 25mm. The slot may be saw cut instead of chipped but ensure that the slot is dovetailed or otherwise shaped such that there will be mechanical interlock of materials placed into the slot at a later stage; a "V" shaped slot is not acceptable. Do not cut rebar when creating slot. Flush away all loose materials and dirt from the cavity with water and a stiff brush.

2. **MIXING** Add 1 part water to 3.25 - 3.5 parts Patch'n Plug by volume and mix to the consistency of a stiff putty. Do not mix more than can be used in 3 minutes. For best results, water temperature should be approximately 15°C - 20°C.

3. **PLUGGING** Form plug with gloved hand. Place plug into cavity pressing firmly until plug is hard. When sealing cracks, begin at the point of lowest water flow and work towards the point with greatest water flow.

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. (See procedures below.)

a. With a hammer drill or chipping gun, if it is possible, without damaging the rebar, deepen the slot an additional 25mm at the point of greatest water flow.

b. Place a stiff section of hose or pipe into the cavity and secure in place with Patch'n Plug to force water through the hose. Stop the water flow in the remainder of the slot as per the directions above (i.e. form plug with gloved hand and press plug firmly into the cavity until it is hard.) 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. If necessary, reduce water flow by inserting steel wool or wooden plug in the remaining hole before patching.

Patching Instructions

1. **SURFACE PREPARATION** Chip 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, add water to Patch'n Plug powder. Mix to a desired consistency (typically mix 1 part water to 3 - 3.5 parts powder by volume). Mix to a workable mortar consistency and trowel on as required. For large repairs, we recommend utilizing Xypex Megamix II.

Abnormal Temperatures

If ambient or product temperatures exceed 30°C, measures may need to be taken to cool the powder, mix water and substrate to achieve optimum performance. Below normal ambient temperatures will retard the setting time of Patch'n Plug. In this situation, Xypex materials should be stored at normal temperatures (see Storage). Temperature of mixing water can be moderated to either increase or decrease the set time. Do not use Patch'n Plug where the substrate's temperature is below 4°C. Contact the Technical Services Department of Xypex UK for your particular application.

Technical Services

For more instructions, alternative application methods, or information concerning the compatibility of the Xypex treatment with other products or technologies, contact your Xypex distributor or local representative.

Safe Handling Information

Xypex is alkaline. As a cementitious powder or mixture, Xypex may cause significant skin and eye irritation. Directions for treating these problems are clearly detailed on all Xypex pails and packaging. The Manufacturer also maintains comprehensive and up-to-date Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of workers and customers. The Manufacturer recommends you contact XYPEX (UK) LLP or your local Xypex Technical Services Representative to obtain the latest copies of Safety Data Sheets prior to product storage or use.

Certification

Xypex Patch'n Plug satisfies the requirements of EN 1504-3; Initial Type Testing (ITT) according to EN 1504-3 was certified by BSI as the Notifying Body.

Warranty

XYPEX (UK) LLP (Registration No. OC315394) warrants to the purchaser that the products supplied by it shall be free from material defect. Should any of the products be proven defective, the liability to XYPEX (UK) LLP shall be limited to (at the choice of XYPEX (UK) LLP) either replacement of the proven defective products ex-factory with Xypex products, or refund of the NETT ex-factory purchase price at the date the proven defective products were supplied. XYPEX (UK) LLP will not be liable or responsible, to such an extent as permitted by law, for any consequential or direct damages, compensation, costs, expenses, losses or other liabilities that may occur as a result of the defective products. XYPEX (UK) LLP makes no warranty as to the merchantability or fitness for a particular purpose and the terms of this warranty are in lieu of all other warranties expressed or implied by law. The purchaser should consult with Xypex UK LLP for further details in relation to the Warranty.

