

# XYPEX® PATCH 'n PLUG

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## PRODUCT

XYPEX PATCH'N PLUG is a specially designed, fast-setting, non-shrink, high-bond-strength, hydraulic cement compound for concrete patching and repair. 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 Patch'n Plug are enhanced by Xypex's unique crystalline waterproofing technology.



## RECOMMENDED FOR:

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

## ADVANTAGES

- Single component (simply add water)
- Fast setting: two to three minutes at 70 °F (21 °C)
- Excellent structural strength
- As durable as the masonry and concrete to which it is applied
- Non-metallic (won't rust or deteriorate)
- Non-toxic

## PLUGGING

Force plug into prepared crack or hold and press firmly until plug is hard. When sealing cracks begin at the highest point and work down. For high-pressure leaks form plug with gloved hand and wait until nearly hard before pushing into leak, then press firmly in place until completely hard.

## PACKAGING

Xypex PATCH 'n PLUG is available in convenient re-sealable plastic pails, 2.27 kg (5 lb) as well as 9.07 kg (20 lb).

## STORAGE

Xypex products must be stored dry at a minimum temperature of 7 °C (45 °F). Shelf life is one year when stored under proper conditions.

## YIELD

2.27 kg (5 lb)	90 cu. in.
9.07 kg (20 lb)	0.21 cu. ft. (362 cu. in.)

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## TEST DATA

Physical Property	Test Method	Typical Result	
		psi	MPa
Compressive Strength	ASTM C109		
@ 24 hours		2100	14.3
@ 7 days		3100	21.3
@ 28 days		4500	31.0
Setting Time	ASTM C266	min.	sec.
Initial Set		3	50
Final Set		9	10
Tensile Bond Pull-Off	CSA A23.2-6B	psi	MPa
		120	0.8

**Note:** Samples prepared with 1 part water to 3.25 parts dry powder by mass). Setting time was determined using Gilmore needles.

## PLUGGING INSTRUCTIONS

- PREPARATION:** Rout out crack or hole by chiseling or chipping to a minimum depth of one inch (25 mm). Form a square or dovetail shaped space (do not use a 'V' cut). Flush away all loose materials and dirt from the cavity with water and a stiff brush.
- MIXING:** Add 1 part water to 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 15-20 °C (60-70 °F).
- PLUGGING:** Form plug with gloved hand. Place plug in to 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. (See procedures below.)

Follow these steps:

- With a concrete chisel and hammer (or chipping gun), cut open a cavity at the point of greatest water flow.
- 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. This relieves the pressure so that the area can be patched. Allow a minimum of 24 hours for hardening.
- Remove the bleeder hose and plug the remaining hole. It necessary reduce the water flow by inserting steel wool or wooden plug in the remaining hole before patching.

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## 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 Patch'n Plug powder (1.5 parts water to 4 parts powder by volume). Mix to a workable mortar consistency and trowel on as required. For large repairs, mix 1 part Patch'n Plug with 2 parts mason sand or small aggregate (10 mm or 3/8 in minus crushed stone).

## ABNORMAL TEMPERATURES

During above normal ambient temperatures, mixing water should not exceed 32 °C (90 °F) and Xypex Patch'n Plug material should not exceed 21 °C (70 °F). 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) and mixing water should be heated to increase setting speed.

## SAFE HANDLING INFORMATION

Xypex is alkaline. As a cementitious powder or mixtures, 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 Material 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 Chemical Corporation or your local Xypex representative to obtain copies of Material Safety Data Sheets prior to product storage or use.

Manufactured by Xypex Chemical Corporation  
Richmond BC Canada V6B 2G9

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