

Sealing Cast in Penetrations

Application Procedure

Surface Preparation

The inside of the cast in pipe/cable to be sealed should be free from dirt, oil, grease and poorly adhering matter such as cement film paint or other. Polyethylene, polypropylene pipes should be thoroughly abraded with an abrading pad in order to de-gloss and roughen the surface. Dust clean or flush with clean water prior to application.

Mixing Procedures

Xypex Patch'n Plug is mixed by adding one part clean water to 3.5 parts Patch'n Plug powder, by volume, to a dry lumpy consistency. (Mix only as much as can be applied in 3 minutes)

Coverage

Patch'n Plug = 25kgs produces 0.0141 m³

Hydroswell PDS+ = 310ml cartridge yields .00031m³

Method

1. Ensure there is a 25 mm gap between the pipe/duct and the penetration.
2. Prepare the inside of the pipe as per surface preparation above.
3. Apply either
 - i. A foam backer to withstand the swell of PDS+ - this is especially useful if there may be additional cables/pipes added later
 - ii. Xypex Patch'n Plug into the bottom/back of the hole to within approximately 150 mm of the top/front of the hole. NB this may need to be done in multiple applications.
4. Apply Hydroswell PDS+ to completely fill (around the service(s) if applicable) so the pipe is filled to within typically 50 mm of the top/front of the hole.
5. Apply Xypex Patch'n Plug to fill the pipe from the Hydroswell PDS+ to the surface of the concrete/pipe.
6. The Xypex treatment must not be applied under rainy conditions or when the ambient temperature is below 4 degrees Celsius.

Curing

Leave to air cure until Xypex Patch'n Plug reaches full strength.

Once cured, structures used to contain potable water supplies should be disinfected in compliance with the recommendations contained in 'The operational Guidelines for the protection of Drinking Water Supplies' before putting these structures into service.

Usually backfilling can take place 36 hours after the Xypex application.

Safety

Apply the usual industrial hygiene. Important information about work and environmental security can be found in the Xypex Concentrate MSDS and Patch'n Plug MSDS.

A copy of all relevant MSDS are available on request at info@smrxypex.co.uk

General

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