

Hydroswell

Ancillary Products

Hydroswell Sealant Method Statement

Application Procedures *[Note: These instructions should be read in conjunction with the relevant product and safety data sheets]*

Hydroswell Sealant is designed for sealing construction joints, cold joints and working joints in concrete, around pipe penetrations, in sewer joints, against slurry walls, sheet piling, steel columns etc. as an alternative to, or when, Hydroswell Bentostrip is not suitable.

Surface Preparation

The surface must be clean, dry and free from dust, rust, dirt, oil, paint, or other foreign or loose substances that could hinder bond.

Application

- Hydroswell Sealant comes in 310ml cartridges suitable for use in any standard caulk or sealant gun. Break the moisture proofing aluminium foil on the top of the cartridge and cut the nozzles diagonally at the appropriate position. Place the cartridge into caulking gun
- Ensure Hydroswell Sealant has a minimum concrete cover of 70mm
- Hydroswell Sealant should be applied as a continuous bead and must be a minimum of 10mm in diameter
- Installation during heavy rain or in prolonged contact with water should be avoided as this can result in a premature swelling of the Hydroswell Sealant or the Sealant becoming de-bonded
- In cold weather warming the cartridges of Sealant in hot water will ease application
- Preferably the mastic should cure for 24 hours before pouring concrete
- Despite the fact that Hydroswell Sealant has a very good adherence to the concrete, care must be taken, as with all products of this type, not to pour the concrete directly on the product to avoid damaging of the applied sealant.

Application – Pipe Penetrations

- Hydroswell Sealant comes in 310ml cartridges suitable for use in any standard caulk or sealant gun. Break the moisture proofing aluminium foil on the top of the cartridge and cut the nozzles diagonally at the appropriate position. Place the cartridge into caulking gun
- Ensure Hydroswell Sealant has a minimum concrete cover of 70mm
- Apply a min 10mm bead of Hydroswell Sealant in a continuous bead around the penetration with a side by side overlap at the join
- Installation during heavy rain or in prolonged contact with water should be avoided as this can result in a premature swelling of the Hydroswell Sealant or the Sealant becoming de-bonded
- In cold weather warming the tubes of Sealant in hot water will ease application
- Preferably the mastic should cure for 24 hours before pouring concrete
- Despite the fact that Hydroswell Sealant has a very good adherence to the concrete, care must be taken, as with all products of this type, not to pour the concrete directly on the product to avoid damaging of the applied sealant.

Storage

Hydroswell Sealant should be stored under cover, clear of the ground. Protect the materials from all sources of moisture and frost.

Shelf life is unlimited. Storage temperature must be between 5°C and 30°C.

Technical Data / Properties

Swelling capacity in contact with water	Swells approx. 400% of its original dry volume (*)	Test report KUL University
Density	Approx. 1,44 kg/dm ³	ASTM D71-84
Weight	Approx. 0,72 kg/m	Test DNC
Cone penetration	35,5	ASTM D217
Expansion pressure under complete enclosure	0,70 N/mm ²	Test report KUL University
Resistance against hydrostatic pressure	Up to 80 m water column = 8 bars	Test report DNC
Elongation at rupture	7500%	Test method KUL University
Maximum bend allowed	No cracks at 180° above 0°C	Test method KUL University
Installation temperatures	-15°C to 60°C	Test DNC
Operating temperatures	-45°C to 120°C	Test DNC
Odour	Odourless	

General

These instructions for use are for general guidance purposes only. SMR Projects Ltd do not make any warranty as to the merchantability or fitness for a particular purpose. The user shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith. These 'Instructions for Use' do not constitute as SMR Projects Ltd giving advice on a specific project or specification. This responsibility, and all risks and liability in connection therewith, remain with the user (or whoever is given such responsibility for the project in question.)

For further detailed information relating to the use of this product, the user must refer to the 'Specification and Application Manual' as well as the relevant technical data sheet. Any discrepancies between the manual or the data sheet and this document should be notified to a Xypex technical representative. A copy of the literature will be provided upon request.

It is always recommended that before any application the local Xypex technical representative is contacted in order that he/she may assist the user in reviewing the proposed method of application, and perhaps advise of any further recommendations that may be required for the specific project in question.

It is recommended that the user carry out trials and appropriate testing, under site conditions, prior to committing to using the product. This is not only to enable the user to determine the correct Xypex specification to be used, and confirm whether all the project specification requirements will be met, but also to ensure other issues, such as compatibility of products, are established.

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