

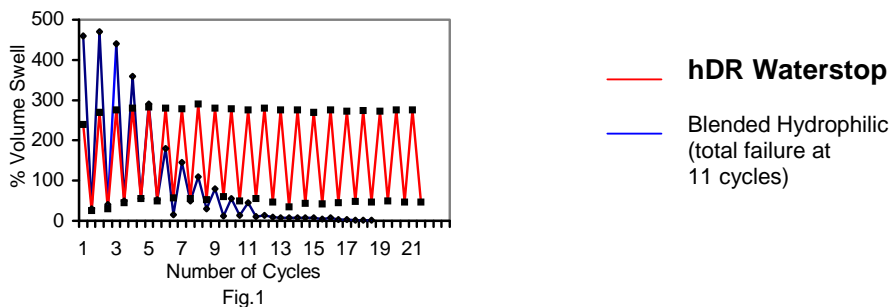
DESCRIPTION

hDR WATERSTOP is a Hydrophilic Polyacrylate Elastomeric (swellable rubber) type waterstop. Designed for the integral sealing of construction joints in cast-in place concrete. **hDR WATERSTOP** expands upon contact with water to form a positive seal even in saline conditions.

hDR WATERSTOP is suitable for use in potable water situations. **hDR WATERSTOP** provides superior expansion (300% unrestrained) to seal and fill voids and cracks in the concrete. The performance of **hDR WATERSTOP** is not effected by continuous wet dry cycles and easily outperforms blended hydrophilic materials. (see fig.1)

hDR WATERSTOP is designed to replace passive PVC/Rubber waterbars, thereby eliminating the requirement of special pieces, split forming and seam welding. Independent testing has confirmed that **hDR WATERSTOP** will perform successfully at over 100m of hydrostatic water pressure, under both continuous immersion and wet/dry cycling.

hDR WATERSTOP is manufactured in lightweight, flexible coils that are easily installed by a single worker. The product is applied to concrete, steel and PVC (Pipes) using **INSTAFLEX** Waterproof Mastic. **INSTAFLEX** can be used to stick the waterstop to damp (not wet) concrete. Coil ends can be butted and secured with Instaflex PU26.



APPLICATIONS

Applications include both vertical and horizontal non-moving concrete construction joints, new to existing concrete construction, irregular surfaces and around through-wall penetrations; such as plumbing and utility pipes. **hDR WATERSTOP** works in both continuous hydrostatic and intermittent hydrostatic conditions and is suitable for saline water applications.

hDR WATERSTOP is designed for use in reinforced structural concrete, utilising two rows of reinforcing steel, with a minimum thickness of 150mm, providing the **hDR WATERSTOP** with no less than 70mm concrete cover to all sides.

INSTALLATION

A rebate, 10mm wide x 10mm deep shall be formed in the centre of the kicker wall, stop-end or day-work joint. Surfaces to either side of the rebate will have a retarder applied by brush or roller before the concrete sets. These surfaces will then be jet-washed or brushed clean of residue prior to the next pour of concrete.

hDR WATERSTOP will be pushed into the rebate firmly and glued and pinned as necessary, using masonry nails and Instaflex PU25 at regular intervals. No gaps between concrete and **hDR WATERSTOP** must be allowed.

hDR WATERSTOP should not be submerged in water, however it can tolerate exposure to wet site conditions for up to three days prior to placing of concrete.

hDR WATERSTOP may be installed as 'puddle flanges' around cast-in, through wall/slab penetrations, using a tie-wire to secure. If in doubt please ask the technical department.

On irregular surfaces make sure **hDR WATERSTOP** remains in direct contact with the substrate along the entire section e.g. old to new slab junctions. Where **hDR WATERSTOP** needs to be fixed to irregular surfaces, a method statement will be prepared by David Ball Group plc to ensure a tight seal is achieved.

LIMITATIONS

hDR WATERSTOP is not described as a self-adhesive product. Instaflex PU25 and where required masonry nails are required to fix **hDR WATERSTOP** to concrete, A suitable adhesive should be used to fix to metal or PVC (Pipes) surfaces. **hDR WATERSTOP** is not designed, nor intended to function as an expansion joint sealant. Contact the technical department for pre-cast concrete applications, technical information and approval.

hDR WATERSTOP is designed for structural concrete and requires a minimum of 70mm of concrete cover to all sides. **hDR WATERSTOP** should only be used in applications where the product is completely encapsulated within the concrete.

In conditions where severe ground water or chemical contamination exists or is expected, consult manufacturer for compatibility information and approval.

SIZE & PACKAGING

hDR WATERSTOP is supplied in 5m coils, 10mm x 20mm in heavy duty shrink wrapping

ADDITIONAL INFORMATION

This data sheet should be read in conjunction with our Method Statement for constructing watertight structures using **PUDLO CWP**. When used in conjunction with **PUDLO CWP** and placed as described in our Method Statement, Grades 3 & 4 levels of dryness according to BS8102 can be achieved.

hDR Waterstop