

HDB Waterstop



A Division of David Ball Group plc

DESCRIPTION

HDB Waterstop is a black Elastomeric Hydrophilic strip made of natural sodium bentonite clay and synthetic rubber designed for the integral sealing of construction joints in cast-in place concrete. **HDB Waterstop** expands up to 400% of its original dry volume on contact with water to form a positive seal.

HDB Waterstop is also suitable for use in potable water situations.

ADVANTAGES

HDB Waterstop is a permanently active ecological and user friendly system simple and quick to install.

The composition of **HDB Waterstop** prevents premature swelling.

HDB Waterstop has a proven track record in water treatment plants, water purification plants, underground parking lots, water reservoirs, swimming pools, water tanks, metro works and other concrete structures subject to high water pressure.

HDB Waterstop can resist hydrostatic pressures of up to 80 metres of water column = 8 bar.

The durability and performance of the **HDB Waterstop** will exceed the design life of the structure.

HDB Waterstop will not dissolve in water and is non-polluting.

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. **HDB Waterstop** works in both continuous hydrostatic and intermittent hydrostatic conditions.

HDB Waterstop is designed for use in reinforced structural concrete, utilising two rows of reinforcing steel, with a minimum thickness of 150mm, providing the **HDB 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, spray, or roller before the concrete sets. These surfaces will then be jet-washed and brushed clean of residue prior to the next pour of concrete.

HDB Waterstop will be pushed into the rebate firmly and glued and pinned as necessary, using masonry nails and a continuous bead of Instaflex PU25. No gaps between concrete and **HDB Waterstop** must be allowed.



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HDB 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.

HDB 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 **HDB Waterstop** remains in direct contact with the substrate along the entire section e.g. old to new slab junctions. Where **HDB 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

HDB Waterstop is not described as a self-adhesive product, and is secured with a continuous bead of Instaflex PU25 and where required masonry nails. A suitable adhesive should be used to fix to metal or PVC (Pipes) surfaces. **HDB 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.

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

SIZE & PACKAGING

HDB Waterstop is supplied in 5m coils, 10mm x 20mm in boxes (7 x 5 metre rolls per box)

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 levels of dryness according to BS8102: 2009 can be achieved.

