



PRODUCT DATA SHEET

HDBR WATERBAR

25mm x 20mm



DESCRIPTION

HDBR Waterbar is a green 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. **HDBR Waterbar** expands up to 400% of its original dry volume on contact with water to form a positive seal.

HDBR Waterbar is also suitable for use in potable water situations.

ADVANTAGES

HDBR Waterbar is a permanently active ecological and user friendly system simple and quick to install. The composition of **HDBR Waterbar** prevents premature swelling.

HDBR Waterbar 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.

HDBR Waterbar can resist hydrostatic pressures of up to 40 metres of water column = 4 bar.

The durability and performance of the **HDBR Waterbar** will exceed the design life of the structure.

HDBR Waterbar 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.

HDBR Waterbar works in both continuous hydrostatic and intermittent hydrostatic conditions.

HDBR Waterbar is designed for use in reinforced structural concrete, utilising two rows of reinforcing steel, with a minimum thickness of 200mm, providing the **HDBR Waterbar** with no less than 70mm concrete cover to all sides.

INSTALLATION

A rebate, 25mm wide x 20mm 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.

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

HDBR Waterbar should not be submerged in water. Installation during heavy rain or in prolonged contact with water can result in premature swelling of the strip, which should be avoided. Plastic sheeting should be used to cover pre-installed **HDBR Waterbar** to prevent early activation, once covered **HDBR Waterbar** can tolerate exposure to light wet site conditions for up to three days prior to placing of concrete.



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HDBR Waterbar 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 **HDBR Waterbar** remains in direct contact with the substrate along the entire section e.g. old to new slab junctions. Where **HDBR Waterbar** needs to be fixed to irregular surfaces, a method statement will be prepared by **PUDLO** to ensure a tight seal is achieved.

LIMITATIONS

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

HDBR Waterbar 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.

HDBR Waterbar is designed for structural concrete and requires a minimum of 70mm of concrete cover to all sides.

HDBR Waterbar should only be used in applications where the product is completely encapsulated within the concrete.

SIZE & PACKAGING

HDBR Waterbar is supplied in 5m coils, 25mm x 20mm in boxes (6 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.