

Water-Bar

New Generation Hydrophilic Construction Waterstops

Description

Technically advanced, reactive waterstop systems for positive long term protection.

- PVC/Hydrophilic hybrid internal and external placement waterbars.
- Hydrophilic strip waterstops for all civil and commercial construction needs.

Uses

- PVC/Hydrophilic hybrid waterstops for passive barriers in construction and expansion joints in water or sewage treatment, pools, pits, basements, tunnels, dams, reservoirs, etc.
- Hydroswelling Strip for low movement joints in precast panels, basement walls, reservoirs, water treatment, penetrations, pipe connections, box culverts, manholes, wet walls, etc.

Features

- No toxic or hazardous ingredients
- Easy to use
- Guaranteed active protection
- Unaffected by long term wet/dry cycling
- Permanently flexible, tough double barrier
- Water-Bar products provide a compatible and comprehensive package of water inhibiting options

Grades

Water-Bar PVC/Hydrophilic Co-Barrier Waterstop

Internally Placed – PHC Grade

- Fixed in centre of slab or wall joint. Has hydroswelling seals to stop water entry.

- 150mm or 200mm wide

Externally Placed – PHX Grade

- Externally placed to horizontal or vertical joints - has hydroswelling seals on fins

- 230mm wide

Water-Bar – Hydroswelling Strip

- Guaranteed thickness and stays intact
- Multi-purpose, high quality, easy to use

XB Butyl Grade

- Self-adhesive, not displaced by concrete

XR Synthetic Rubber Grade

- Available with non-expanding rubber or stainless steel mesh combination to stop any linear dimensional change.

- Slow reaction surface coating available.

Water-Bar Grout – PU Injection Liquid

Water-Bar 150

- Quick reacting and high yield
- Easy to use, stops water flow - fast
- Non-shrink – cuts re-injection costs

Typical Properties

Property	Water-Bar PVC Waterstop	Water-Bar - XB	Water-Bar - XR	Water-Bar 150 Injection Grout
Colour	Green	Dark Grey	Red/Black	Light Brown
Width x Thickness (mm)	150, 200, 230	20x5, 20x10	20x3, 20x10 25x7	N/A (liquid)
Size	15m	20m, 10m	20m, 10m	20 kg
Tensile Strength kg/cm ²	120 (PVC)	30	40	N/A
Elongation (ASTM D412)	250%	N/A	N/A	Flexible: 50% Rigid: N/A
Hydroswelling Effect	100%	500%	500%	200 - 400%
Hardness (Shore A°)	65	20-30	40-50	N/A
Cold Resistance Test	Pass	Pass	Pass	N/A
Heat Resistance Test	Pass	Pass	Pass	N/A

Preparation

- Water-Bar XB and XR grades – Surface to be dry, smooth and defect free.
- Water-Bar Injection Grout – Flush crack with clean water.

Installation

Water-Bar PHC – Internally Placed

Support in specially prepared split stop-end timber formwork to prevent displacement or folding during concrete placement and ensure that half of its width will be cast into the concrete halfway through slab/wall thickness. For walls waterstop may be wired to rebar or held in place with WB Clips.

Ensure Water-Bar PHC is retained in the horizontal plane and that concrete is fully compacted around it. After removing split-formwork the remaining half can be cast into following pour using same care and caution.

Water-Bar PHX – Externally Placed

Lay Water-Bar PHX network onto blinding layer or fasted securely on vertical shutters using mechanical fixings staggered at 500mm cross centres. Timber stop-ends are placed on centre valve to hold in place.

After removing stop-ends the following pour will encase the remaining half. If required, expansion joint may be formed on valve.

NOTE

A fully continuous waterstop network must be formed using only carefully fabricated junctions and securely welded site joints.

Installation

Water-Bar XB, XR - Generally

- Fix self-adhesive XB Grade directly.
- Water-Bar XR Grade may be fixed with adhesive or mechanical fasteners.
- A rebate may be pre-formed in concrete to position Water-Bar strip and facilitate positive compression seal.
- Only install Water-Bar waterstops in fully confined joints with min. 75mm cover.
- Form joints with 100mm overlap.
- For unrestrained joints such as pipes, precast panels, etc use Water-Bar XR with stainless steel mesh (N) or non-swelling rubber (S) hybrid combinations to prevent distortion. Special "O" ring profiles, etc. are available for this use.
- If premature swelling has occurred, dry with hot air gun before pouring concrete.
- An optional inhibitor coating will prevent premature swelling taking place.

Water-Bar Injection Grout - Generally

Inject Water-Bar Grout using either a high pressure single piston pump (injected resin reacts with water in structure to create a foamed waterproof sealant) or twin piston pump with adjustable water to resin mix ratio (produces waterproof foam sealants of variable density and yield).

Storage

All Water-Bar waterstop products must be stored in a cool dry place.



Water-Bar PVC
Waterstop



Water-Bar - XB



Water-Bar - XR



Water-Bar 150
Injection Grout



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