

MasterJoint 910 (formerly MasterSeal 910)

Acrylic hydroswellung waterbars for construction joints

Material Description

MasterJoint 910 is a hydroswellung Acrylic waterbar, ready for installation in cold joints to render the joints leak-proof. It is based on a blend of acrylate polymers and a unique hydroswellung polymer that acts by swelling on exposure to water, to form a seal.

Areas of Application

MasterJoint 910 is recommended for all construction joints exposed to permanent or temporary hydrostatic pressure by ground water, run-off water and/or surface water. It's Suitable for freshwater and saltwater.

Application areas include joints between:

- Abutments of concrete and rock, masonry, etc.
- Rafts and walls in tunnels and basements.
- Steel and concrete pipes, precast elements etc.

Characteristics & Benefits

- User friendly- easy to apply on different substrates
- Swells in contact with water by up to 300% - prevents water ingress even when the joint width varies.
- Water molecules held by molecular attraction – captured water does not get transported through capillaries thus stopping further water ingress.
- Self-injecting function- penetrating cracks and voids
- Controlled swelling – swelling pressure insufficient to damage concrete.
- Does not form foam or gas with water – water absorption creates a durable seal. No air bubbles to breakdown and allow leaks.
- Reversible swelling process – swelling process is infinitely often repeatable, often reversible; Dimensionally stable even at high temperatures.

Properties

Supply form	Rectangular profiles
Colour	Red
Density (g/cm ³)	1.25
Toxicity	Nil
Fire classification	Class E (DIN EN 13501-1)

Performance Data

Swelling capacity (lying in drinking water)	≈50 % after 2 hrs ≈100 % after 24 hrs ≈300% after 8 days
Expansive pressure	≈1,06 N/mm ²
Swelling ratio	250-300%
Shore A Hardness	≥30
Tensile Strength	≥ 1.5 MPa

Application

For Detailed application methodology, please refer to: "Hydro-swelling waterbars for construction joints" Application Guide.

Surface Preparation

The substrate must be sustainable, mostly flat and a closed surface texture. It is essential that it is free from gravel pockets, cavities, gaping cracks, dust and be free from adhesion inhibiting substances. Repair any honeycombs, uneven surfaces and such other defects with a suitable Master Builders Solutions MasterCrete repair mortar.

During the application of **MasterJoint 910**, the substrate may be matt damp, but puddles of water must be avoided.

Application

It is necessary to ensure that there is at 8 cm coverage of concrete from the side exposed to water. Expansion tape bond with a mounting adhesive suitable for waterstops.

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Completely cover the prepared substrate with the mounting adhesive and press the **MasterSeal 910** into the adhesive until it emerges out from beneath. Earliest after 8 hours beginning to pour the concrete after bonding.

Alternatively **MasterSeal 910** can also be fixed with steel nails (min. 5 nails per meter). Ensure that the MasterSeal 910 makes complete contact with the substrate, avoiding the formation of loops and hollows.

Waterstop joints can be made by overlapping by 50 mm.

Earliest after 8 hours beginning to pour the concrete after bonding.

Note: **MasterJoint 910** is unsuitable for movement joints.

Packaging

	Size	Length of roll	Total quantity in one box
MasterJoint 910	20mm x 10mm	20L m	5 rolls: 100Lm

MasterSeal 910 unit of sales is per role (20Lm)

Storage

MasterJoint 910 should be stored away from moisture. The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.

Specification Clause

All construction joints exposed to hydrostatic pressure shall utilise a high-performance, Acrylic base water Swellable gasket with min 250% Swelling rate in volume equivalent to **MasterJoint 910**.

For Waterproofing applications of basements and below grade constructions: it can be used as part of the integral waterstop protection type B (BS 8102) when combined with a watertight concrete (Crystalline admixture used equivalent to **MasterLife 300D**). This waterproofing system can be considered as Level 1 Basic/Intermediate protection for Grade 1 and 2 of below grade structures.

Disclaimer

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