MasterSeal 910

Water swelling waterbar for joints

MATERIAL DESCRIPTION

MasterSeal 910 is a high pressure, modified thermoplastic elastomer, swellable water bar.

AREAS OF APPLICATION

MasterSeal 910 Waterbar is suitable for all construction joints subject to hydrostatic pressure, on one or both sides. **MasterSeal 910** provide simple but efficient waterproofing of construction joints. Movements in the joint, e.g. by shrinkage or settlement in the substrate, are taken up by the elastic profile of the **MasterSeal 910** Waterbar.

MATERIAL COMPOSITION

MasterSeal 910 is based on modified thermoplastic elastomer.

FUNCTIONAL BEHAVIOUR

Simple application; rapid expansion; self-injecting function by penetrating cracks and voids; dimensionally stable even at high temperatures; swelling process is infinitely often repeatable, often reversible; suitable for freshwater and saltwater.

INSTALLATION PROCEDURE

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. Completely cover the prepared substrate with the mounting adhesive and press the expansion tape into the adhesive until it oozes out from beneath. Earliest after 8 hours beginning to pour the concrete after bonding. Alternatively expansion tape can also be fixed with steel nails (min. 5 nails per meter). Ensure that the expansion tape makes complete contact with the substrate, avoiding the formation of loops and hollows. Waterstop joints can be made by overlapping by 50 mm.

Preparation:

All joints to be waterproofed with **MasterSeal 910**. Waterbars must first be cleaned. Free standing water and sharp protrusions must be avoided. **MasterSeal 910** Waterbars can be installed on moist or frozen surfaces.

MasterSeal 910 Waterbars are resistant to most ordinary mould release agents, but if in doubt the installed waterbar should always be protected from accidental exposure to form release agents.

Placing:

For normal joint widths of 200-400mm, **MasterSeal 910** is placed in the middle of the joint. For added safety thicker walls can be fitted with 2 waterbars, spaced parallel to each other 50-100mm apart.

MasterSeal 910 Waterbars are glued into the joint with a special adhesive, **MasterSeal NP472** on vertical surfaces the **MasterSeal 910** is temporarily fixed to the construction joint with a nail until the adhesive dries.

MasterSeal 910 Waterbar MUST always be secured so that the waterbar is in close contact with the surface of the substrate otherwise the full waterproofing effect will not be obtained.

After placing the **MasterSeal 910** Waterbar the joint area should be kept clean and free of loose dirt and stones before concreting. The minimum concrete cover of **MasterSeal 910** Waterbar is 80mm.

Butt Joints:

MasterSeal 910 Waterbars should never be glued at butt joints but laid with a 50mm overlap.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information, refer to material safety datasheet.

PACKAGING

20 x 5mm, 40 linear metres per carton.

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STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage and disposal instructions refer to the Material Safety Data Sheet.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

TECHNICAL PROPERTIES*

Colour:	Blue
Format:	Square profile
Dimensions:	5 x 20mm
Density:	Approx. 1.25 g/cm^3
Swelling capacity (lying in drinking water):	Increased weight approx. 50% after 2h Increased weight approx. 305% after 24h Increased weight approx. 480% after 8 days
Expansive pressure:	Approx. 1.06N/mm^2
Fire classification:	Class E (according to DIN EN 13501 – 1)
Toxicity:	None

DISCLAIMER

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