

WATERBAR- SWELLING WATERBAR
Description

MacLennan Waterbar is a hydrophilic, thermo-plastic elastomer waterbar, which swells when activated by moisture. It is characterised by high elasticity and high tensile strength. MacLennan Waterbar can be used to seal the structure against water leaks to both poured concrete and precast construction joints.

The swelling is achieved through special hydrophilic polymers, which are inseparably linked within the carrier material (TPE). This ensures that high elasticity and exceptional tensile strength results even when fully expanded within the joint.

Due to its high resistance to acids, alkalis and organic solutions, MacLennan Waterbar can be used to seal joints where aggressive water is expected such as within sewage treatment plants, bio-gas plants and liquid waste holding tanks.

MacLennan Waterbar is particularly suited to sealing non compressed joints such as at the junction between slab and wall. MacLennan Waterbar swells to 4 times its original size when in contact with water, sealing the joint fully and reliably.

Typical applications

Primary swelling waterbar to seal the joint against leaks through construction joints, movement joints and compression joints to earth retained structures. The following joints can be waterproofed with MacLennan Waterbar:

- Raft - Raft
- Raft - Wall
- Wall - Wall
- Slab - Steel Piled Cut off Wall

Key Benefits

- Very high resistance to water pressure
- Delayed swelling - will not swell during the installation process or during the concrete cure
- Swells up to 4 times its original size to quickly seal leaks at joints in the structure
- Very resistant to the high alkalinity of concrete
- Maintains very high elasticity and tensile strength, even when swollen
- Age resistant, no embrittlement
- Resistant to sewage, chlorine and sulphur
- Retains integrity even through many wet/dry cycles

Concrete Cover

MacLennan Waterbar swells up to 4 times its original size when in contact with water. To seal the joint, the waterbar must be confined by at least 75mm of concrete.

Suitable Substrates

- Steel
- Plastic
- Concrete
- Ceramic


TECHNICAL DATA

Features	Result
Material	TPE with hydrophilic polymers
Colour	Blue
Profile	Various
Sizes	Various
Swelling capability	Up to 4 times original size
Watertightness	5 bar (50m water column)
Installation temperature	5°C to 40°C
Service temperature	-30°C to 60°C

FOR MORE INFORMATION

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