

TT WATERSTOP

**High-swelling
hydrophilic
waterstop**



TT Waterstop resists hydrostatic pressure, in excess of 6 bar (60m) which stops the passage of water through a concrete construction joint. **TT Waterstop** is used with **TT Admix** system as well as can be used in standard RC concrete.

TT Waterbar is a recognised method joint sealing within BS 8102:2022. Due to the sodium bentonite content, on contact with water, **TT Waterstop** will swell within its confinement, swelling into localised honeycombing and minor fissures.

APPLICATION

- Installed between in-situ kicker, slab and wall construction joints.
- Box-out or concrete infills.
- Cut and cover tunnel construction.
- External service / pipe penetrations.
- New to old concrete.

ADVANTAGES

- BDA accredited
- Non-dimensional when swelling and sealing defects within the structure.
- Resists in excess of 6 bar (60m) hydrostatic pressure.
- Quick, easy and simple installation.
- Longevity on wet-dry cycle.
- Unaffected by freeze/thaw cycle.

TECHNICAL DATASHEET

LIMITATIONS

- **TT Waterstop** is not suitable for movement joint / expansion joints and must not be used in these applications.
- **TT Waterstop** is not designed to function in movement/expansion joints.
- **TT Waterstop** is designed for minimum 20N/mm² reinforced concrete and requires confinement and a minimum 75mm cover to all sides.
- **TT Waterstop** should not be subjected to submersion or remain in contact with water prior to concrete pour. If the product exhibits any considerable swell prior to concrete pour it must be replaced.
- If sea water is present or ground water contamination exists or is expected please contact Wykamol / Triton technical representative(s).

PRODUCT DATA

EXPANSION PROPERTIES	VALUES
Edometric Swelling Index (%)	>160
Expansion due to contact with water (4 days)	270%
Swelling Pressure (kPa)	>300
Permeability	No flow

RESISTANCE TO DAMAGE

The product is resistant to normal construction site activities, is unaffected by extremes of temperature and humidity and does not require any form of protection. The swelling capacity provides the capability of the product to seal minor cracks and voids.

BEHAVIOUR IN RELATION TO FIRE

The product does not prejudice the fire-resistant properties of the building and will not contribute to the development stages of a fire or present a smoke or toxic hazard.

CHEMICAL RESISTANCE

The gelling of sodium bentonite is adversely affected by the presence of electrolytes (particularly trivalent ions) and may also be affected by the presence of soluble cations as those found in chalk or lime soils. In such cases please seek advice from Triton's technical team. The product is not affected by organic contaminants.

PACKAGING

20mm x 25mm x 5m rolls – 6 rolls per box

Box = 6 x 5m rolls (30m)

Box weight = 27kg

STORAGE

Triton TT Waterstop has a self life of 24 months; stored in original unopened cartons in cool, dry conditions, away from direct sunlight.

DURABILITY

When the product is fully protected by concrete in normal service conditions, it will provide a durable watertight seal for the life of the building in which it is installed. The expected life time of the building itself should be at least 60 years.

HEALTH & SAFETY

- Refer to material safety data sheets / MSDS
- Avoid skin and eye contact.
- Avoid inhalation of vapours.
- Wear safety glasses, gloves and overalls.

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