

### Triton TT Waterstop

High-swelling hydrophilic strip waterstop



#### Description

**TT Waterstop** is a formulated blend of sodium bentonite and butyl rubber, designed to be used as an active waterstop which reacts with water to seal construction joints within concrete. The seal resists hydrostatic pressure, in excess of 6 bar (60m), stopping the passage of water through the joint.

Due to the sodium bentonite content, on contact with water, **TT Waterstop** will swell within its confinement, self injecting into localised honeycombing and minor fissures.

#### Areas of Application

- Poured in-situ construction joints.
- Box culverts and retaining walls.
- Cut and cover tunnel construction.
- Underground (utility) vault seal.
- New to old concrete.

#### Advantages

- Non-dimensional swell allows complete injection to surrounding voids.
- Conformable – can be applied to a range of irregular substrates.
- Resists in excess of 6 bar hydrostatic pressure.
- Simple butt-jointing on site application.
- Reproducible swell after wet-dry cycle.
- Unaffected by freeze/thaw cycle.

## Limitations

- **TT Waterstop** is not designed to function in movement/expansion joints.
- **TT Waterstop** is designed for minimum 20N/mm<sup>2</sup> 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 consult the Triton technical team.

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

- Always read the Health and Safety data sheets before use.
- Avoid skin and eye contact.
- Avoid inhalation of vapours.
- Wear safety glasses, gloves and overalls.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Triton Systems' current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard trading terms and conditions.

## Triton Contact Details:

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