

Thick sectioned, conformable, hydro-expansive waterstop for preventing saline and brackish water entry through joints in concrete substructures

Product Description

A conformable, swellable polymer/butyl rubber waterstop strip that expands in contact with saline and brackish water. When fully encapsulated by poured concrete, the expansive forces form a seal against concrete faces. The seal resists hydrostatic pressure, stopping water from entering sub-structures

Adcor®500T is a unique product that has been specifically developed to provide higher performance than conventional bentonite or swellable rubber waterstops. Superior performance arises from:

- controlled, reproducible, volumetric expansion;
- cohesive strength maintained after volumetric expansion;
- malleable and plastic, enabling easy application to a variety of concrete profiles.

Applications

- Horizontal and vertical construction joints in concrete structures
- Casting new concrete against existing
- Floor slabs cast against diaphragm retaining walls, steel sheet piles and secant pile walls.
- Joints between floor slabs and pile caps

Advantages

- Controlled volumetric expansion - reduces risk of concrete spalling.
- Conformable – can be installed onto a variety of irregular substrates.
- Retains cohesive strength at both original and expanded volume.
- No need for protective steel mesh.
- Resists at least 6 bar (87 psi) hydrostatic pressure.
- Volumetric expansion over 140% in 8% salted water.
- Simple overlap jointing on site.
- Reproducible swell after wet – dry cycling.
- Unaffected by freeze/thaw cycling.

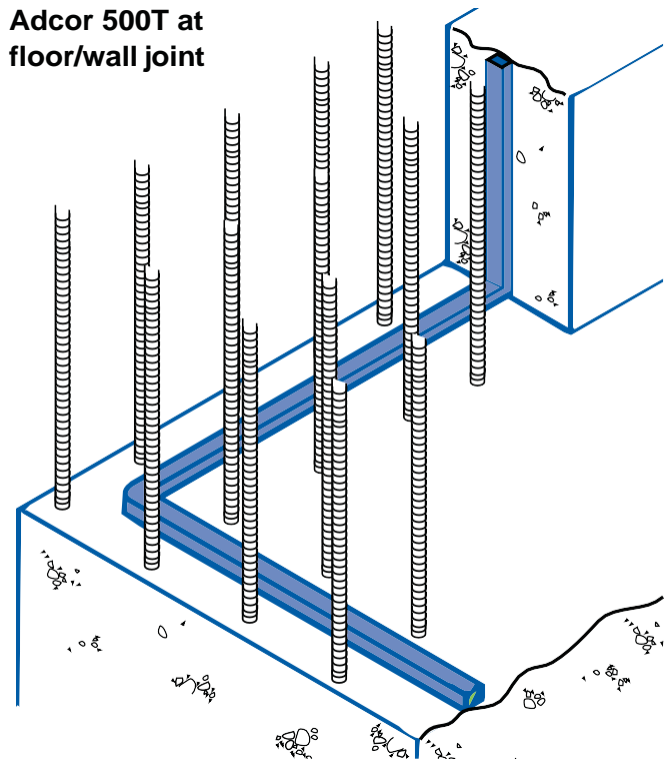
System Components

Adcor 500T
25mm X 20mm waterstop strip, supplied in 5m rolls.

Supply

Adcor 500T	5m rolls 6 rolls/carton 30 cartons/pallet pallet weight 700kg.
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Adcor 500T at floor/wall joint



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Allnex Technical Services.

Typical Properties

Property	Typical Value
Profile size	25mm X 20mm
Color	Dark blue
Volumetric expansion in 8% salted water	> 140%
Water pressure resistance	> 6 bar (87 psi)
Density	1.46kg/dm ³
Weight	0.7kg/m
Maximum bend	180 ° at 0 °C
Application temperature range	-15 °C to 60 °C
Service temperature range	-45 °C to 120 °C
Minimum concrete cover	70mm
Minimum overlap	100mm

Limitations

Not suitable for use in movement joints.

Not suitable for use with pre-cast concrete components.

Design

GCP recommends the use of waterstops in all construction joints subject to hydrostatic pressure. Waterstop networks must be continuous through all joints and penetrations if they are to be effective.

Installation

- Concrete surfaces must be clean and free of all contaminants. Remove all debris and loose concrete.
- On irregular concrete faces gun a 10mm. bead of Adcor Mastic as a bedding material before placement of Adcor 500T.
- Fix Adcor 500T using masonry nails 40mm – 50mm long with a washer 20mm diameter. Shot fired fixings with 6mm nuts and 20mm diameter washers may also be used. Fixings should be spaced at a maximum of 300mm center.
- All joints should be overlapped 100mm to ensure full contact between jointed pieces.
- Adcor 500T can be bent around corners, however on complex geometry use a gapfiller.
- Any damaged sections should be removed and repaired with a new section of Adcor 500T.
- Keep Adcor 500T dry prior to pouring concrete.

Health and Safety

Read the product label and SDS (Safety Data Sheet) before use. Users must comply with all risk and safety phrases. For health and Safety questions on this product please contact your Allnex representative.

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