

TECHNICAL DATA SHEET

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.

TECHNICAL SPECIFICATIONS

	Typical Value
Profile Size	25mm x 20mm
Colour	Dark Blue
Volumetric Expansion in 8% Salted Water	>140%
Water Pressure Resistance	>6 bar (60m)
Density	1.46kg / cm 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

Note: The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

PRODUCT APPLICATION

- Construction joints in in-situ concrete structures.
- Casting new concrete against existing.
- Floor slabs cast against diaphragm retaining walls,

FLOOR SLABS CAST AGAINST DIAPHRAGM RETAINING WALLS, PRODUCT 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 (60 m) hydrostatic pressure. Volumetric expansion over 140% in 8% salted water.
- Simple overlap jointing on site.

TECHNICAL DATA SHEET

- Reproducible swell after wet – dry cycling.
- Unaffected by freeze/thaw cycling.
- Steel sheet piles and secant piled walls.
- Joints between floor slabs and pile caps.
- Pipe penetrations through floors and walls.
- Remedial 'breaking out' of concrete.

PACKAGING & HANDLING

- 25mm x 20mm waterstop strip, supplied in 30m rolls

Unlimited shelf life when stored in a dry place in its original packaging.

INSTALLATION GUIDELINES

1. Concrete surfaces must be clean and free of all contaminants. Remove all concrete spatter and nibs.
2. On irregular concrete faces gun a 10mm bead of Adcor Mastic as a bedding for Adcor 500S.
3. Fix Adcor 500T using masonry nails 40mm to 50mm long with a washer 20mm in diameter. Hilti EM6-20-12 FP8 shot fired fixings with 6mm nuts and 20mm diameter washers may also be used. Fixings should be spaced at a maximum of 300mm centres.
4. Adcor Adhesive MS can be used on clean substrates, wire brushed to remove all dust, dirt, rust, and other contaminants. The adhesive is damp surface tolerant but will not adhere to wet surfaces. Gun a 10mm bead onto the substrate, and press Adcor 500T firmly into place.
5. Pak Adhesive must be applied to dry substrates only. Apply by brush to both the substrate and Adcor 500T. Wait until both surfaces are dry to touch, then press Adcor 500T firmly into place.
6. At all movement joints, link with GCP co-extruded AT System waterstops using Secura clips (see detail).
7. All joints should be overlapped 100mm. Ensure full contact between jointed pieces.
8. Adcor 500T can be bent around corner. However, on complex geometry use Adcor Mastic as a gap filler.
9. Any damaged sections should be removed and repaired with either a new section of Adcor 500T or a 25mm min bead of Adcor Mastic.
10. Keep Adcor 500T dry prior to pouring concrete.

HEALTH AND SAFETY

Always use protective clothing, gloves and goggles consistent with regulations during use. Avoid eye and skin contact. Do not ingest. Refer to Safety Data Sheet (SDS) for detailed safety precautions. SDS's can be obtained from NURALITE or from our web site at www.nuralite.co.nz

TECHNICAL DATA SHEET

LIMITATIONS

Not suitable for use in movement joints. Not suitable for use with pre-cast concrete components.

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

Adcor 500T