

TECHNICAL DATA SHEET

DESCRIPTION

A conformable, swellable polymer/butyl rubber waterstop strip that expands in contact with 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® 500S is a unique product that has been specifically developed to provide higher performance than bentonite or conventional 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	Light Blue
Volumetric Expansion in Cement Water	Min 100%
Water Pressure Resistance	>6 bar (60m)
Density	1.46kg / cm ³
Weight	0.7kg / m
Maximum Bend	180° at 0°C
Application 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

- Sealing cold and construction joints
- Sealing pipe penetrations
- Sealing joints between precast elements
- Sealing vertical construction joints

PRODUCT ADVANTAGES

- Construction joints in in-situ concrete structures
- Casting new concrete against existing
- Floor slabs cast against diaphragm retaining walls, steel sheet piles and secant piled walls
- Joints between floor slabs and pile caps

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- 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 500S 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 500S firmly into place.
5. Pak Adhesive must be applied to dry substrates only. Apply by brush to both the substrate and Adcor 500S. Wait until both surfaces are dry to touch, then press Adcor 500S 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 500S 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 500S or a 25mm min bead of Adcor Mastic.
10. Keep Adcor 500S 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

LIMITATIONS

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

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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 500S