

TECHNICAL DATA SHEET

ALLSHEET 500



DESCRIPTION

Allsheet is a damp proof membrane (DPM) for use in low risk, non-hydrostatic conditions, providing some vapour-barrier properties. Allsheet has excellent tear and puncture resistance.

APPLICATIONS:

Allsheet 500 T is a 500-micron virgin DPM, recommended as a superior DPM, when used in accordance with the installation instructions may be used as follows:

- / Under concrete slabs at grade or below grade level
- / Lining against earth fill or retaining walls and basement walls
- / Under foundation footings and grade beams
- / Vapour barrier retarder lining
- / Roof deck underlay
- / Crawl space
- / Lining against contaminated soils.

TECHNICAL SPECIFICATIONS

Property	Methods	Units	500T
THICKNESS	EN 1849-2	mm	0.5
TENSILE AT BREAK MD	ASTM D6693IV*	Mpa	19
TENSILE AT BREAK TD	ASTM D6693IV*	Mpa	19
ELONGATED AT BREAK MD	ASTM D6693IV** (-5%)	%	1000
ELONGATED AT BREAK TD	ASTM D6693IV** (-5%)	%	1040

*Tensile Properties: 50mm/min, 33mm Gauge Length

**Tensile Properties: 50mm/min, 50mm Gauge Length

Physical Properties: TUV Austria

DURABILITY B2

Allsheet has a minimum life of 50 years under the following conditions:

1. Must be installed as outlined in E2/AS1 10.3.3 Damp Proof Membranes, and must be laid on a properly prepared base as required by NZS3604:2011 & E2/AS1
2. Free from tear, puncture or damage during installation
3. Storage away from direct sunlight prior to installation
4. Is not left exposed for more than 28 days.
5. No exposure to corrosive or petrochemical agents
6. Installed by or under the supervision of a licensed building practitioner.
7. The concrete remains unbroken
8. The building maintaining structural integrity

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STANDARDS

Allsheet 500 T exceeds the requirements of:

NZS 3604:2011 Clause 7.5.4.2, AS 2870 and E2/AS1: Table 23 and Clause 10.3.3 - Damp Proof Membranes.

INSTALLATION OF GAS, MOISTURE & VAPOUR BARRIER / DPC SITE PREPARATION

Allsheet 500 T must be laid on a properly prepared base as required by NZS3604:2011 & E2/AS1.

On approved consolidated base course apply an even layer of sand (5mm) to blind all sharp aggregate basecourse materials. Alternatively apply continuous woven or nonwoven separation fabric over prepared consolidated basecourse, with panels overlapped a minimum 150mm.

As a waterproofing membrane and concrete underlay: Loose lay (colour side up where applicable) over the required area in sheet sizes that require minimum site joining. Turn up all edges at walls to the level of the top of the finished concrete slab. Extend above exterior wall weep holes and under flashings. Extend a minimum 150mm past form bulkheads to provide over-lap to subsequent adjacent membrane sections.

As a moisture and vapour barrier in walls and ceilings: The membrane may be fastened to the warm side of walls and ceilings by clouts or staples to timber battens. Overlaps are as per following methods using Allco Red Cloth Tape from Allco or similar approved PVC adhesive tape.

Ground cover in crawl spaces and sub floor cavities: Loose lay the membrane over the entire area to be covered. Overlaps and joining methods including sealing to piles and other protrusions are as per below. The membrane should extend above foundation walls to finished floor level.

JOINING

Allsheet 500 T is supplied in (Flat wound) roll form 2m x 50m.

All surfaces must be clean, dry and free from oil and grease. Overlap all joints 150mm and use Allco Red Cloth Tape or similar approved PVC adhesive tape to seal the lap.

Allco Allsheet 500 T must be inspected for tears and unwanted penetrations. If repair is required use Allco Red Cloth Tape or similar approved PVC adhesive tape to ensure the integrity of Allco Allsheet 500 T as a moisture barrier.

SEALING

Secure screeds and form bulkheads by an approved means to avoid penetration or any form of damage to the integrity of the membrane. Penetration of the membrane shall not be allowed except for protrusion of structural elements and permanent utilities. Coat all utilities with an approved wet applied sealant, allow to cure and apply Allco Red Cloth Tape around protrusion at membrane edge and seal with press roller. Care shall be taken that the membrane not be damaged by any other means and that the membrane shall be damp proof at the time concrete placement is completed.

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.

If you have a query regarding this technical data sheet, please contact Allco.