

DEBOTACK 2.5 T/F C175 AERO



WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET

ANZ-TDS-05-DEBOTACK 2.5 T/F C175 AERO

DESCRIPTION

DEBOTACK 2.5 T/F C175 AERO is a flexible self-adhesive waterproofing membrane consisting of a mixture of penetration bitumen, improved with SBS (Styrene-Butadiene-Styrene). It is reinforced with a composite fleece of 175 g/m² polyester and glass.

The upper side is finished with a mixture of talcum and sand, and the underside is covered with a heat resistant polypropylene fleece with self-adhesive ribbon strips. The strips are covered with a removable siliconised film.

The self-adhesive strips have a width of 55 mm with an interval of 43 mm, and a length of ± 95 cm. This design provides a 50% bonding of the DEBOTACK 2.5 T/F C175 AERO onto the substrate. The area between the self-adhesive ribbons creates channels that allow any vapour pressure to diffuse all over the roof surface.

FIELD OF APPLICATION

DEBOTACK 2.5 T/F C175 AERO can be used as a vapour distribution layer for concrete, wooden surfaces and selected thermal insulation boards, but not to be applied on steel. It can also be used as a base sheet layer in a multi-layer system.

APPLICATION METHOD

DEBOTACK 2.5 T/F C175 AERO is self-adhered over a prepared substrate (including side-laps) using ELASTOCOL 600. The end-laps are heat welded using a leister or a hot air gun.

INSTALLATION PROCEDURE

SUBSTRATE

- No work should be started until all surfaces are smooth, dry and free of ice, snow or any other substance that may prevent the membrane from adhering properly.
- Substrate must have a minimum 1% gradient to ensure that water drains to drainage outlets.
- Concrete substrate must be fully cured before application of the membrane.
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 5 as per International Concrete Repair Institute.
- Adhesion test is recommended prior to installation of membrane.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

PRIMING

- When installed over concrete, wooden-based substrates or metal surface, prime with ELASTOCOL 600 at the rate specified in the TDS.

PRESSURE INSTALLATION

- Unroll DEBOTACK 2.5 T/F C175 AERO sheets onto the substrate included PIR boards.
- Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope, shingled to prevent back-water laps. Ensure specified minimum 80 mm side-laps overlap and minimum 150mm end-laps overlap are maintained. End-laps should be staggered 1 m apart.
- As the DEBOTACK 2.5 T/F C175 AERO is unrolled, apply pressure on the topside of the ply to optimise the self-adhesive property automatically activated, and to get a full adhesion of the 50% of the underface membrane to the substrate. The full bond strength is achieved after the application of an additional thermal activation (e.g. welding upper layer).
- Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired results.
- At the 150 mm end-laps ensure a fully adhered watertight seal. Melt the DEBOTACK 2.5 T/F C175 AERO using a torch.
- In order to obtain a good adhesion, the membrane has to be placed at a temperature above +10 °C. Before installing, the rolls must be stored for at least 12 hours at a temperature above +10 °C.
- All penetrations and upturn details should be waterproofed as per SOPREMA Installation Guides and detail drawings.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR ENDUROFLEX REPRESENTATIVE.

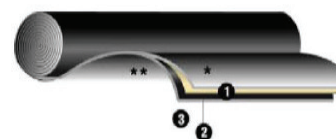
Compliance with AS 4654.1

Easy to install

Integrated vapour distribution

High mechanical properties

High adhesion properties



*mixture of talcum and sand

1 Upper coating: SBS-elastomer modified bitumen

2 Composite reinforcement (175 g/m²) of polyester and glass fibre

3 Unercoating: SBS-elastomer modified bitumen

**polypropylene fleece+self-adhesive sripes+removable siliconised film

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PACKAGING

SPECIFICATIONS	DEBOTACK 2.5 T/F C175 AERO
Thickness	2.5 mm
Roll dimensions	11.25 m × 1 m
Roll weight	43 kg
Rolls per pallet	16

(All values are nominal)

PROPERTIES

PROPERTY	TEST METHOD	DEBOTACK 2.5 T/F C175 AERO
Visual defects	EN 1850-1	PASS
Straightness	EN 1848-1	PASS
External fire performance in accordance with EN 13501-5	CEN/TS 1187	NA
Reaction to fire in accordance with EN 13501-1	EN 13501-1	F
Tensile strength (L/T)	AS 4654.1	800 / 950 N/5 cm (±100)
Elongation at break (L/T)	AS 4654.1	MD: 43 (±8) % CD: 44 (±10) %
Abrasion resistance	AS 1580.403.2	-
Bond strength	ASTM C794	17 ± 6 N/2.5cm Type of failure : 70% cohesive in the bitumen mass 30% cohesive in the primer
Dimensional stability	ASTM D6207	MD: 0,07% CD: 0,32%
Cyclic movement	CSIRO Moving Joint Test (see Appendix B)	Pass (22°C / 26% RH)
Field seam strength	ASTM D1876	1.375 (±0.15) N/m
Heat ageing	AS 4654.1 (AS 1145.3)	Pass / No change
Ultraviolet resistance	AS 4654.1 (AS 1145.3) (ASTM D4799)	Pass / No change
Durability	AS 4654.1	Pass
Water vapour transmission rate	ASTM E96	0*

* The results values are below the tolerance of the equipment.

TDS_DEBOTACK_2.5_T/F_C175_AERO_12-2021

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STORAGE AND HANDLING

Rolls must be stored upright. If stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging. Pallets may not be placed onto each other during storage and rolls need to be stacked to avoid bending. Temperatures above +30 °C should be avoided at all times.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor are responsible for checking the suitability of products for their intended use.

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