DEBOPLAST 2.5 T/F C175

TECHNICAL DATA SHEET

ANZ-TDS-06-DEBOPLAST 2.5 T/F C175

BRANZ Appraised
Appraisal No.689 [2016]

WATERPROOFING

APPLICATIONS

ROOFS

DESCRIPTION

DEBOPLAST 2.5 T/F C175 flexible waterproofing membrane consisting of a mixture of penetration bitumen, improved with APP (Atactic PolyPropylene). It is reinforced with a composite fleece of 175 g/m^2 polyester and glass.

The upper side is finished with a mixture of talcum and sand and the underside is covered with a sacrificial film. It is used as an underlay or a vapour control layer and can be torch applied or mechanically fixed.

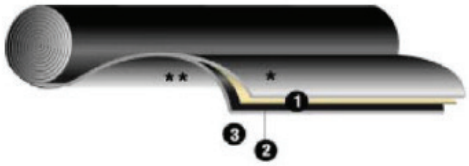
- Compliance with AS 4654.1
- High dimensional stability properties
- High melting point
- Excellent mechanical properties
- Great puncture resistance

FIELD OF APPLICATION

Suitable as a top layer (no UV exposure) and as an under layer in multi-layer waterproofing assemblies, **DEBOPLAST 2.5 T/F C175** is used in vertical and horizontal waterproofing.

APPLICATION METHOD

DEBOPLAST 2.5 T/F C175 can be fully heat welded using a propane torch, MINI MACADEN machine or mechanically fixed (only when used as under layer in multi-layer roofing assemblies).



*mixture of talcum and sand
1 Upper coating: APP-plastomer modified bitumen
2 Composite reinforcement (175 g/m²) of polyester and glass fibre
3 Uncercoating: APP-plastomer modified bitumen
**sacrifial film

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.
- Do not install heat welded membranes directly onto combustible substrate.
- 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 as top layer over base sheet membrane, primer is not required.
- When installed over concrete or metal surfacem, prime with SOPRADERE QUICK at the rate specified in the TDS.

HEAT WELDING

- Unroll membrane sheets onto the roof surface.
- 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 membrane ply is unrolled, apply heat to the underside of the ply until the thermofusible plastic film melts sufficiently for full adhesion to the substrate, and full adhesion between plies.
- For hand-held roof torches, continuously move the torch side-to-side across the underside of the roll to melt the bitumen while continuously unrolling sheet. While unrolling and heating the sheet, ensure approximately 6 to 12 mm of hot bitumen flows ahead of the roll, and there is 3 to 6 mm bleed out at all laps. Ensure all side-laps are fully adhered and sealed watertight.
- 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 thermofusible plastic film or embed granules and remove other membrane surfacing, where present, using a torch or hot-air welder.
- 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 DuO REPRESENTATIVE.

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PACKAGING

SPECIFICATIONS	DEBOPLAST 2.5 T/F C175
Thickness	2.5 mm
Roll dimensions	10 m × 1 m
Roll weight	25 kg
Rolls per pallet	30

(All values are nominal)

PROPERTIES

PROPERTY	TEST METHOD	DEBOPLAST 2.5 T/F C175
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	2.2 (±0.24) 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_DeboPlast 2.5 T/F C175

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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.

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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