

SOPRAGUM GARDEN 4 PLUS

TECHNICAL DATA SHEET

ANZ-TDS-02-SOPRAGUM GARDEN 4 PLUS



WATERPROOFING

APPLICATIONS

ROOF GARDEN

PLANTER BOX

FOUNDATIONS

DESCRIPTION

SOPRAGUM GARDEN 4 PLUS is a plastomeric modified bitumen waterproofing membrane (APP), manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers integrated with anti-root additives, which gives to the compound excellent technical characteristics. The composite reinforcement, made of nonwoven polyester in combination with fiberglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance. The upper surface is sanded. The lower surface is coated with a thermo-fusible polyolefin film.

USE - APPLICATION

- Top layer in protected systems where root resistance is required
- Single layer protected roofing and waterproofing membrane,
- Can be fully heat welded with propane torch or Mini Macaden machine

APPLICATION 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 minimum 1% fall 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 6 (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.



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PRIMER

- When installed as top layer over base sheet membrane, primer is not required,
- When installed over concrete or metal surface prime with Antirock primer at the rate specified in TDS

HEAT WELDING

- Unroll membrane sheets onto the roof surface and allow time to relax prior to heat welding.
- 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 side-laps and end-laps are maintained. End-laps should be staggered 1 meter apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until plastic burn-off film melts away 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 12mm of hot bitumen flows ahead of the roll, and there is 3 to 6mm 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 150mm end-laps ensure a fully adhered watertight seal. Melt the plastic burn-off 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 waterproof as per Soprema installation manuals and detail drawings,
- If in doubt contact: tech@soprema.com.au

PACKAGING

	SOPRAGUM GARDEN 4 PLUS
Thickness	4mm
Dimensions	10 × 1 m
Top Face	Sanded
Underface	Torch-off film
Rolls per pallet	20



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PROPERTIES

PROPERTY	STANDARD	VALUE	TOLERANCE
Flexibility at low temperature (pliability)	EN1109:2013	-15°C	≤
Heat flow resistance	EN1110:2010	130°C	≥
Watertightness	EN1928-B:2000	200kPa	≥
Root resistance	EN13948:2007	PASSED	±
Tensile properties: maximum tensile strength	EN12311-1:1999	750 / 550 N/50 mm	-20%
Tensile properties: elongation at break	EN12311-1:1999	40 / 40%	-15
Dimensional stability	EN1107-1:1999	±0,3 / ±0,3%	≤
Shear resistance of joints	EN12317-1:1999	500 / 350 N/50 mm	-20%
Durability: Watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	PASSED	≥60 kPa
Durability: Visual defects after artificial ageing	EN1297:2004/EN1850-1:1999	PASSED	±
Durability: Resistance to water vapour after artificial ageing	EN1296:2000/EN1931:2000	PASSED	±

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 is responsible for checking the suitability of products for their intended use.

Note: Field service where provided, does not constitute supervisory responsibility. Suggestions made by Soprema Australia Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Soprema Australia Pty Ltd are responsible for carrying out procedures appropriate to a specific application.

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