

# SOPRASUN PLUS 4.5KG MINERAL



WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET

ANZ-TDS-04-SOPRASUN PLUS 4.5KG MINERAL

## DESCRIPTION

SOPRASUN PLUS 4.5KG MINERAL is an APP-modified bitumen waterproofing membrane designed for roofing and below grade applications.

SOPRASUN PLUS 4.5KG MINERAL is reinforced with a non-woven polyester combine with fiberglass. The composite reinforcement conveys good mechanical characteristics, excellent dimensional stability, and elastic performance.

SOPRASUN PLUS 4.5KG MINERAL top surface is coated with coloured slate chips and selvedge edge is slate free on one side; bottom surface is covered with a thermofusible plastic film.

Compliance with AS 4654.1

Good mechanical properties

Excellent dimensional stability

Excellent elastic performance

Wide temperature tolerance

## FIELD OF APPLICATION

Suitable as top layer for single-ply or multi-layer waterproofing assemblies, SOPRASUN PLUS 4.5KG MINERAL is used in vertical and horizontal, exposed and protected, waterproofing for the following general applications:

- Rooftops
- Plaza decks
- Balconies
- Retaining Walls

## APPLICATION METHOD

SOPRASUN PLUS 4.5KG MINERAL can be fully heat welded using a propane torch or MINI MACADEN.

## 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 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

### PRIMING

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



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## INSTALLATION PROCEDURE

### 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 side-laps and end-laps 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 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 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 Guides and detail drawings.

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

### PACKAGING

| SPECIFICATIONS   | SOPRASUN PLUS 4.5 KG MINERAL |
|------------------|------------------------------|
| Thickness        | 3.9 mm                       |
| Roll dimensions  | 10 m × 1 m                   |
| Roll weight      | 45 kg                        |
| Rolls per pallet | 23                           |

(All values are nominal)

### PROPERTIES

| PROPERTIES                    | TEST METHOD                 | SOPRASUN PLUS 4.5 KG MINERAL |
|-------------------------------|-----------------------------|------------------------------|
| Abrasion resistance*          | AS 1580.403.2               | PASS                         |
| Bond strength to concrete     | ASTM C794                   | 27.4 N/2.5 cm                |
| Cyclic movement               | CSIRO Moving joint test (B) | PASS                         |
| Dimensional stability         | ASTM D5147                  | MD: -0.10 % ; CD: -0.19%     |
| Elongation at break           | AS 4654.1                   | 37 %                         |
| Field seam strength           | ASTM D1876                  | 1.2 (±162) N/m               |
| Heat ageing                   | AS 4654.1 (AS 1145.3)       | PASS ; no visual change      |
| Ultraviolet resistance*       | AS 4654.1 (AS 1145.3)       | PASS                         |
| Tensile strength              | ASTM D5147                  | 740 N/5CM                    |
| Durability                    | AS 4654.1                   | PASS                         |
| Water vapor transmission rate | AS 4654.1                   | 0 perm**                     |

\* Applicable only to self - protected \*\* The results values are below the variation of the equipment. We consider that the sample have no water vapor transmission



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## STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. 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 and/or the contractor are responsible for checking the suitability of products for their intended use.



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