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SOPREMA METAL FINISHES Sopralast TV COPPER & Sopralast TV ALUMINIUM

GENERAL

SOPREMA SOPRALAST TV COPPER AND ALUMINIUM are hot torch applied bituminous waterproofing membranes with a **metal foil face**. The membrane is based on SBS modified bitumen with a glass fabric reinforcement.

The metal skin is formed in a rectangular embossed pattern

This specification deals with:

1. Manufacture of Materials
2. Surface Preparation
3. Application : Double Layer System only
4. Warranty
5. Producer Statement

1. MANUFACTURE OF MATERIALS

All materials shall be produced supplied or specified by Nuplex Industries Ltd. To avoid incompatibility of component materials it is essential that Nuplex technical staff be consulted before any product other than those specified is used.

NB: Sopralast TV Copper is normally stocked in NZ. The Aluminium version is indent only.

2. SURFACE PREPARATION

It is the contractor's responsibility to inspect all areas which are to receive the waterproofing membrane and report any unsatisfactory conditions to the main contractor. Listed below are details specifications for preparing various substrates.

All surfaces to be waterproofed must be clean and sound. Remove all dust, dirt, laitence or any other contaminants which may hinder adhesion of the membrane.

Excessive substrate movement observed or foreseen must be recorded and advised to Nuplex or the installing contractor

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CONCRETE

Any hollows shall be filled (Nuplex FLC) and ridges ground smooth (use Nuplex FLC). Surface must be free of any spalled areas, loose aggregate and sharp protrusions. Outside corners must be free of sharp edges.

Substrate must be dry. The use of Nuplex Hydrepoxy 300 is an option to isolate damp concrete. Control joints shall be treated as specified by architect, engineer and approved by membrane manufacturer.

PLYWOOD

Plywood must be fastened by corrosion resistant screws at 100mm centres around the perimeter and 150mm centres within the sheets. Plywood must be minimum 17.5mm, H3 treated CCA (waterbased treatment). Joist spacing should be at a maximum of 600mm. Center nog joists at 1200mm. All sides and/or ends must be noggled even if T&G ply is used. Plywood sheets must be staggered.

Screwed and glued plywood is preferred for a rigid, structurally sound roof. Well bonded plywood is the basis of a sound, long lasting roof.

Refer to plywood manufacturers recommendations for design data.

OTHER

Any other substrate or areas with existing waterproofing membranes please refer to Nuplex Industries Ltd for advice.

3. **APPLICATION**

All products shall be applied by approved contractors.

Carefully plan the installation as the back exposed edges are visible, ensure that the edges face away from the most frequently viewed area. Allow no further trades onto the completed roof.

DOUBLE LAYER APPLICATION

Apply Nuplex Membrane Primer at a spreading rate of 4-5m²/litre (2 coats may be necessary to ensure substrate is properly primed).

To all interior and exterior corners hot torch apply a 100mm Sopralene Flam 180 fillet. Hot tool chamfer all edges. To all drains sumps or protrusions hot torch apply a layer of Sopralene Flam 180 extending at least 150mm in all directions.

To main roof area hot torch apply a layer of Sopralene Flam 180 with 75mm wide side laps and 100mm end laps. Hot tool chamfer all edges.

To parapets and upstands hot torch apply Sopralene Flam 180 extending lap over main roof areas by at least 75mm.

Hot torch apply second layer being Sopralast TV Metal to first layer ensuring that all laps are staggered. **Take care** not to over-heat the second layer as this may damage the metal skin.

NB: The maximum length of run is 3m before lap is required. This ensures that the stretching of the copper skin does not result in a blister or creases.

Hot torch apply second layer of Sopralast TV Metal to all parapets and vertical upstands extending laps over main roof area at least 100mm.

Any terminations to vertical surfaces are to be finished into a flushing mechanically fixed and sealed with a suitable sealant.

DETAILS

Detail for upstands, penetrations, gutters, inlets, outlets etc are on our website (/roofing /details). The details are all compliant with E2 AS1 (detail sections 8.5.) however the Nuplex membrane system is in double layer form.

VENTILATION

Ventilation to the full roof cavity must be provided to prevent moisture build up in the cavity. The vented area should be below the ply but above any insulation. Side vents on opposite sides of the building are preferred with full cross ventilation designed into the structure. Distances exceeding 10m should have separate roof vents. Nuplex provide vent systems.

4. **WARRANTY**

Soprema provide a 10 year material and labour warranty against claims due to product failure or incorrect specification. An insurance policy provide guarantee of cover. A further policy is jointly provided by Nuplex and Nuplex licensed contractors to extend the warranty to 15 years in compliance with the Building Act. Only double layer systems are warranted.

5. **MAINTENANCE**

The metal skin is decorative and UV protecting. Small wrinkles, tears, splits will not affect the integrity of a double layer membrane system.

The glossy metal surface will soon become dull with normal oxidation. The copper skin will eventually develop the well known green copper patina but this will take many years.

Clean the surface if moss or lichen develop. Clean drains regularly.

5. **PRODUCER STATEMENT**

Soprasun 4AR is provided by Soprema as suitable as an exterior roof cladding in the New Zealand environment. As such it is compliant with the New Zealand Building Act. A 15 year warranty is supplied. Double layer Soprasun 4AR is an alternative solution with the requirements of E2/AS1 July 2005.

Nuplex Industries Ltd are a founding member of the Membrane group Code of Practice for Torch-on membranes.

This specification is to be read in conjunction with relevant technical data sheets. If in any doubt or confusion exists please contact Nuplex Industries Ltd, Building Products Division.

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