

## Standard Specification for the application of the EQUUS SOPREMA NOVA-SK Flameless Two-Layer waterproofing membrane system to plywood surfaces

Project:  
Prepared for:  
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### 1.0 PREAMBLE:

This specification is for the application of the **EQUUS SOPREMA NOVA-SK** flameless waterproofing membrane system, in a two-layer configuration to plywood surfaces.

The two-layer system consists of a self-adhesive base sheet of 3mm thick, composite polyester/fiberglass reinforced **EQUUS SOPREMA NOVA-SK** self-adhered to a pre-primed plywood substrate, with the 3.5mm-thick **EQUUS SOPREMA NOVA-SK MINERAL** cap sheet self-adhered over the base sheet to form a total thickness of 6.5mm for the finished waterproofing system.

The **NOVA-SK MINERAL** cap membrane provides a UV-resistant, flexible coating on the upper and underside of a polyester and glass fibre composite reinforcement carrier to act as a shrink-free and strong reinforcing agent. The membrane is installed by flameless, self-adhered application.

The **EQUUS SOPREMA NOVA-SK** membrane system has been assessed for the use on roofs, decks and gutters installed on treated plywood on buildings within the following scope:

- Buildings where the supporting structure and associated elements is designed and constructed within the scope of New Zealand Building Code E2/AS1 clause 1.1.
- Specifically designed buildings constructed to comply with the New Zealand Building Code.

### 2.0 SURFACE PREPARATION:

#### 2.1 General - Responsibility:

Unless expressly agreed otherwise at time of contract pricing, all work in this section shall be the responsibility of the main contractor, whether carried out by their own staff, other sub-trades or the roofing membrane sub-contractor.

#### 2.2 Plywood:

- .1 Plywood minimum 17mm thick for roofs, and 21mm thick for decks. Lay sheets tight butt jointed to maximise the use of whole sheets with sheet joints laid over framing members, in a staggered brick-bond pattern, running across the fall of the roof.
- .2 Fix plywood in accordance with the manufacturer's instructions using countersunk stainless-steel screws, with all sheets laid in a bead of construction adhesive. Screws fixed at 150mm centres on sheet perimeter and 200mm through the body of the sheet. Fix tongue and groove plywood to same specification.
- .3 The moisture content prior to installation of the membrane system must not exceed 20%. LOSP treated plywood must not be used.



#### .4 Minimum Falls

Ensure minimum falls for **EQUUS SOPREMA NOVA-SK** waterproofing membrane systems are:

- The minimum fall for a roof and deck is not less than 1:80 (0.7°), to CodeMark CMNZ70151
- The minimum fall for a gutter is not less 1:100 (0.57°), to CodeMark CMNZ70151

#### .5 Corners

All leading edges of plywood shall be chamfered with a 5mm radius corner. All internal corners shall have minimum 20x20 H3.2-treated timber fillets or Bitumen Fillets installed.

#### .6 Outlets:

Roof and deck outlets shall be installed as per clause 8.5.6 of E2 External Moisture of the New Zealand Building Code.

Outlets shall be sized in accordance with E1 Surface Water of the New Zealand Building Code.

- .7 Existing substrates and structures must be thoroughly inspected to ensure that they will not compromise the performance of the membrane when applied.

### 3.0 MEMBRANE APPLICATION:

**Note: A prestart meeting should be held onsite with the Main Contractor and the Equus Certified Applicator prior to commencement of installation.**

**Note: Apply self-adhesive membranes only when the temperature of both the membrane and the substrate are above 10 °C. Don't apply self-adhesive membranes in climatic conditions having high humidity (fog) or cold (presence of dew or ice) temperatures.**

#### 3.1 Primer:

To the dried and prepared surface apply one (1) full coat of **EQUUS PEEL AND STICK** primer at a spreading rate of 6 to 8 m<sup>2</sup>/L depending on the porosity of the substrate. Allow to dry for minimum one (1) hour depending upon prevailing weather conditions.

#### 3.2 Base sheet: NOVA-SK (Self-adhesive)

Decide the most suitable direction to follow. Unroll and discard packaging. Align the first roll and cut to length as required. Remove the siliconized film and press the membrane into place on the surface ensuring even rolling and no creasing or bubbling. The self-adhesive properties are automatically activated during installation. Use a weighted roller to ensure full coverage. Repeat in sequence with all rolls, maintaining minimum side laps of 80mm laps and end laps of 150mm. Offset end laps in adjacent runs. The lap automatically closes during application however it is recommended to have a hot air gun on hand during the process if additional heat is required (temperature dependent).

#### 3.3 Primer:

To the **NOVA-SK** base sheet apply one (1) full coat of **EQUUS PEEL AND STICK** primer at a spreading rate of 6 to 8 m<sup>2</sup>/L depending. Allow to dry for minimum one (1) hour depending upon prevailing weather conditions.

#### 3.4 Cap sheet: NOVA-SK MINERAL (Self-adhesive)

Decide the most suitable direction to follow. Unroll and discard packaging. Align the first roll and cut to length as required. Remove the siliconized film and press the membrane into place on the **NOVA-SK** base sheet ensuring even rolling and no creasing or bubbling. The self-adhesive properties are automatically activated during installation. Use a weighted roller to



ensure full coverage. Repeat in sequence with all rolls, maintaining end laps of 150mm. Use hot air gun to apply heat to laps and roll with hand roller to ensure full closure of all laps. All laps shall be offset to prevent coincidence with the base sheet laps. The lap automatically closes during application however it is recommended to have a hot air gun on hand during the process if additional heat is required (temperature dependent).

### 3.5 Detailing:

Detailing shall be carried out using **NOVA-SK MINERAL** cap sheet and/or in combination with the **ALSAN FLASHING** or **MATACRYL THIX** liquid membrane finished with **CHEVALINE DEXX TOPCOAT** or **MINERAL CHIP**. This includes all outlets, pipe penetrations, gutter stop ends, parapet upstands, machinery plinths and anything above or below the roof surface. This is carried out before, during or, in some cases, after laying the membrane, depending on the type of detail. All detailing shall be done in accordance with the manufacturer's technical literature current at the time of design, use, installation and/or maintenance.

### 3.6 Sealant

Where sealant is required, **ALSAN MASTIC 2200** shall be used.

### 3.7 Membrane Termination

The membrane will be terminated with **C-PROFILE** and **ALSAN MASTIC 2200** on upstands and parapets as per the manufacturer's termination details.

### 3.8 Completion:

Upon completion of the system it shall be inspected and left for a short period (up to 2-3 weeks) to stabilise. At this time the entire installation shall be rechecked prior to any warranties being issued. Where possible, particularly on deck areas, a pond test (24 hours) should be carried out.

**Note:** Damage caused to the completed installation by other trades working over the membrane after the initial inspection shall be the responsibility of the Main Contractor, who shall arrange appropriate protection for the finished membrane system as required.

### 3.9 Trafficability:

The **EQUUS SOPREMA NOVA-SK** waterproofing system is suitable for standard roof maintenance traffic. For high traffic roofs or decks use the **EQUUS FIXPLUS** tile supports, duckboards and roofwalk, or **KRAITEC STEP** rubber tiles.

The **EQUUS SOPREMA NOVA-SK** waterproofing system shall be protected using a temporary protection board before objects are placed on the roof to prevent damage to the waterproofing membrane.

### 3.10 Photovoltaic Panel Supports (if required):

Where photovoltaic panels are to be installed, **SOPRASOLAR FIX EVO TILT** for bitumen roofs are to be installed as per the installation sheet provided by Equus Industries.

## 4.0 QUALITY ASSURANCE (QA):

The Equus Certified Applicator is responsible for onsite **QA**. The Equus project checklists outlining the required processes shall be completed and signed as each stage of installation is completed. Photographs of each stage shall be taken and submitted as part of the overall **QA**. A Warranty will not be issued unless a copy of the documentation has been filed with Equus Industries Ltd. Third party QA documentation is acceptable provided it is equivalent to the Equus issued QA.



## 5.0 MAINTENANCE AND WARRANTY:

### 5.1 Maintenance:

As normal maintenance, Equus Industries Limited recommends that the finished roof areas are inspected every six months for cleaning, and annually by an Equus Certified Applicator to ensure weathertightness and durability.

Ensure all outlets are free of blockages and clear of unwanted debris and that all associated flashings and membrane cap flashings are sound. Check the general condition of the membrane and ensure it is free from surface moss, mould or lichen.

Check all associated building elements that can impact on the durability of the membrane.

Higher risk areas such as sheet joints, substrate movement, edging, gutters, penetrations, corners, upstands, outlets and overflows require a thorough inspection for weathertightness on an annual basis.

### 5.2 Warranty:

The **EQUUS SOPREMA NOVA-SK** flameless two layer membrane system described in this specification may be warranted as to sheet integrity and to be waterproof for a period of up to twenty (20) years providing that:

- (a) All work is carried out by a Certified Equus Applicator.
- (b) The **EQUUS SOPREMA NOVA-SK** membrane system is installed in accordance with the manufacturer's technical literature current at the time of design, use, installation and maintenance.
- (c) The Warranty is issued in conjunction with the appropriate Maintenance Statement.

The warranty period shall be determined for any contract in consultation with the Manufacturer or their representative prior to application.

The warranty is provided to the client by the Equus Certified Applicator carrying out the work and is backed by the Manufacturer as to the fitness for the purpose of the materials supplied for the contract.

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