Nitoproof® 810

**UV exposed water based waterproof membrane**

**1.00 UV Exposed External Waterproofing**

Where so designated on the drawings, surface shall be waterproofed with a water based liquid waterproofing membrane suitable for external waterproofing of surfaces subject to foot traffic.

**1.10 Surface Preparation**

 All surfaces to which the waterproofing membrane is to be applied shall be dry, clean, sound and free from loose material, surface irregularities and contamination such as oil and grease.

 Correct priming of the prepared surfaces is recommended to ensure maximum adhesion using a suitable material recommended by the membrane manufacturer.

 All wall to wall and floor to wall junctions, internal and external corners, are to incorporate an elastic, preformed corner and joint band into the membrane system, to accommodate any movement at these junctions.

 Alternatively, apply a compatible polyurethane sealant caulking fillet to these junctions. The sealant must be fully compatible with the nominated membrane.

**1.20 Waterproofing Membrane**

 The waterproofing membrane is to be a single component, water based polyurethane liquid applied membrane.

 The membrane must comply with the requirements of:

 AS/NZ 4654.1 2012 Waterproofing membranes for external above-ground use Part 1: Materials

 AS/NZS 4858:2004 Wet Area Membrane as a Class III membrane

 It shall exhibit the following properties:

|  |  |
| --- | --- |
| **Solid content:** | >60% |
| **VOC content:**  | <2g / litre |
| **Tensile strength (cured):** | >2 MPa |
| **Shore A hardness (cured):** | >65 |
| **Elongation at break (AS 4654.1):** | >300% |
| **Water vapour transmission (ASTM E96):** | 2.20 g/m²/24 hours |
| **UV resistance (AS 4654.1 Table 4):** | 226% 4.36 MPa (Pass) |

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1.21 The waterproofing membrane shall be applied in accordance with the manufacturer’s product data sheet.

**1.30** **Fosroc Nitoproof 810** with **Nitoband** and **Nitoseal PU250 (polyurethane sealant)** meet the performance criteria and are approved.

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**2.00** **UV Resistant Top Coat**

 Where the membrane is to be UV exposed, the membrane layer is to be protected from ‘UV’ deterioration by the application of hard wearing, water based acrylic hybrid, foot trafficable top coat.

2.10

The top coating is to be hard wearing, flexible, with a non-slip surface, exhibiting the following properties:

|  |  |
| --- | --- |
| Solids content: | 65% |
| VOC content: | <30g / litre |
| Colour: | Light grey |
| Elongation: | >150% |
| Tensile strength: | >3MPa |
| Shore A hardness: | >80 |

**\*Option:** To provide longer term stain and scuff mark resistance durability to the membrane top coat, an ‘Extended Wear’ coating (Nitoproof Top Coat EW) is also available.

**3.00**

**Nitoproof Top Coat UV Protect and Nitoproof Top Coat EW** meet these performance criteria and are approved for this application.