Polyurea WHE110

**Fast setting, hybrid polyurea-polyurethane elastomeric waterproofing membrane**

**1.00 Fast setting Elastomeric Waterproofing Membrane**

Where so designated on the drawings, surface shall be waterproofed with a spray applied hybrid polyurea-polyurethane waterproofing membrane.

**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.

**1.20 Waterproofing Membrane**

 The waterproofing membrane is to be a two component, flexible hybrid polyurea-polyurethane spray applied membrane.

The waterproofing membrane must be tested and comply to the requirements of AS/NZ 4654.1:2012 Waterproofing membranes for external above-ground use Part 1: Materials.

 The waterproofing membrane shall exhibit the following properties:

|  |  |
| --- | --- |
| **Solid content:** | 100% |
| **VOC content:**  | <20g / litre |
| **Tensile strength (cured):** | >20 MPa |
| **Shore D hardness (cured):** | >45 |
| **Elongation at break (cured):** | >400% |
| **Water vapour transmission rate:** | <7 g/m2/24h (ASTM E96) |
| **Abrasion resistance (1kg, H18 wheels):** | <180 mg / 1000 cycles |
| **Cure time (walkable) @ 21OC / 50%RH** | 2 minutes |

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

**1.30** **Fosroc Polyurea WHE110** and **Nitoprime 320PU (primer)** meets the performance criteria and are approved.

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