Polyurea WPE110

**Fast setting, pure polyurea elastomeric waterproofing membrane**

**1.00 Fast setting Elastomeric Waterproofing Membrane**

Where so designated on the drawings, surface shall be waterproofed with a spray applied pure polyurea 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, rapid curing pure polyurea spray applied membrane.

 The waterproofing membrane must comply with AS4020:2018 when used in contact with drinking water.

 It shall exhibit the following properties:

|  |  |
| --- | --- |
| **Solid content:** | 100% |
| **VOC content:**  | <12g / litre |
| **Tensile strength (cured):** | >14 MPa |
| **Shore D hardness (cured):** | 40 |
| **Water Vapour Transmission (E96-05 (B)):** | <5 g/m².24h |
| **Elongation at break (cured):** | >350% |
| **Abrasion resistance (1kg, H18 wheels):** | <100 mg / 1000 cycles |
| **Cure time (walkable) @ 21OC / 50%RH** | 2 minutes |

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

**1.30** **Fosroc Polyurea WPE110** and **Nitoprime 320PU (primer)** meets the performance criteria and are approved.

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