Vandex BB75E-Z

**Flexible, crack accommodating, cement based waterproofing barrier for positive and negative water pressure applications**

**1.00 Waterproofing**

Where so designated on the drawings, concrete surfaces shall be waterproofed with a cementitious render, flexible waterproofing membrane.

All work shall be carried out by a pre-qualified contractor, who is well trained in the application of the specific, documented, waterproofing system.

All materials used in conjunction with the new waterproofing system, shall be approved by the product supplier.

**1.10 Surface Preparation**

All surfaces shall be prepared and the waterproofing membrane applied strictly in accordance with the current technical data sheet.

All surfaces to which the new waterproofing system is to be applied, shall be clean, sound and free from contaminants, such as concrete curing compounds, paints, form release agents and all other coatings.

Concrete surfaces should be prepared by water blasting, grit blasting or wire brushing in order to remove laitance and open up the concrete pore structure.

Concrete surfaces should be free from major imperfections. All major imperfections must be repaired with a suitable, cementitious, reprofiling mortar such as Vandex Uni Mortar 1-Z, which is suitable for reprofiling depths of 6mm to 12mm. Larger repairs are to be carried out using a suitable cementitious repair mortar.

**1.20 Waterproofing Membrane**

The waterproofing material is to consist of a sulphate resistant cement powder, graded quartz sands and inorganic additives, mixed with a liquid polymer. The waterproofing should be applied by trowel, or mortar spray application at 2.5 to 5.5 kg /m2 depending on the type of application (refer to the product TDS).

When used in contact with drinking water the membrane must meet the requirements of AS/NZS4020:2018 at an exposure level of 15,000mm2 / litre.

It shall exhibit the following properties:

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| **Colour:** | Grey |
| **Permeability to CO2:** | SD > 50m |
| **Water vapour permeability:** | Class 1 SD, 5m |
| **Crack bridging:** | ≤0.8 mm dynamic crack movement |
| **Capillary water absorption:** | W <0.1kg/m2 x h0.5 |
| **Initial setting time:** | 3 - 6 hours @ 20oC |
| **Full cure time @ 20OC / 50%RH** | 5 days |

**1.30** **Vandex BB75E-Z** meets the performance criteria and is approved.

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