Vandex Cemelast

Flexible, cement based render, waterproofing barrier for positive and negative water pressure applications

**\*1.00**

**Waterproofing**

1.01

General

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

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.

1.02

Surface Preparation

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.

**2.00**

**Waterproofing Membrane System**

2.01

Where so designated on the drawings, concrete surfaces shall be waterproofed with a cementitious render, flexible 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 membrane must form an impermeable layer on the substrate surface and not rely on crystal growth within the substrate in order to be effective. It must be flexible, compatible with the host concrete and masonry, non toxic, and can be applied by trowel, or as a slurry by brush or spray application.

2.02

The waterproofing product shall exhibit the following properties:

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| Australian Standard AS4020:  | Potable water compatibility maximum pass achieved |
| Form: | Cementitious powder |
| Colour: | Cement grey |
| Crack movement: | 0.3 mm dynamic crack movement |
| Elongation at break: | 13% (20oC) |
| Water head capacity: | 15 metres (positive and negative pressure) |
| Initial set:  | 2-4 hours |
| Full cure time: | 5 days @ 20oC, 50% RH |
| Application temperature: | 5oC to 30oC |

2.03

Vandex Cemelast from Parchem Construction Supplies meets the performance criteria and is an approved product for this application.

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