Vandex Concrete Grey

**Concrete capillary penetrating, crystal growth sealing, cement based, waterproofing system for positive and negative water pressure applications.**

**1.00 Waterproofing**

Where so designated on the drawings, concrete surfaces shall have an in-depth crystal growth waterproofing compound applied. The cementitious waterproofing product must be capable of waterproofing static cracks and capillaries to 0.3mm in width.

 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 Portland cement powder, graded quartz sands and inorganic additives, mixed on site with water. The waterproofing should be applied as a slurry by brush, or mortar spray application at 1 to 1.5 kg /m2 depending on the type of application (refer to the product TDS).

 It shall exhibit the following properties:

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| **Colour:** | Grey |
| **Workability:** | Approx. 30 minutes @ 20oC |
| **Initial setting time:** | 2 - 3 hours @ 20oC |
| **Full cure time @ 20OC / 50%RH** | 5 days |

 Upon application and initial hardening, the waterproofing must be kept continuously damp for 5 days and protected from drying out.

**1.30** **Vandex Concrete Grey** meets the performance criteria and is approved.

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