Hydrotite

**Water swelling waterstop**

**1.00 Waterproofing**

Where so designated on the drawings, Hydrophilic expanding waterstops shall be placed at the joints in concrete.

All work shall be carried out by an experienced contractor, knowledgeable in the application of the specific waterstop system.

All materials used in conjunction with the waterstop, shall be approved by the product supplier.

**1.10 Surface Preparation**

All surfaces shall be prepared and the waterstop installed strictly in accordance with the current technical data sheet.

The concrete surfaces must be relatively smooth and of constant width. If variations occur, Leakmaster waterstop paste may be required to seal against rough concrete.

Waterstops should be positioned to ensure that a minimum of 100 mm cover of concrete is present to accommodate pressure developed during the swelling process.

**1.20 Waterproofing Membrane**

The waterstop shall consist of a non-expansive chloroprene rubber, co-extruded with a blue hydrophilic rubber which is capable of swelling by approximately 500% volume expansion.

The waterstop shall be treated with a delay coating to prevent premature expansion and be able to change colour upon expansion which acts as a visual alert that the waterstop has started to expand. The waterstop is to be installed strictly in accordance with the manufacturer’s recommendations.

When used in contact with drinking water the membrane must meet the requirements of AS/NZS4020:2018.

It shall exhibit the following properties:

|  |  |
| --- | --- |
| **Colour:** | Blue / Black |
| **Hardness:** | 50 +/-5 (JIS-A) |
| **Tensile strength:** | >2 N/mm2 (Hydrophilic rubber)  >8 N/mm2 (Non-hydrophilic rubber) |
| **Elongation:** | >500% (Hydrophilic rubber)  >400% (Non-hydrophilic rubber) |

**1.30** **Hydrotite (**in conjunction with **Leakmaster)** meets the performance criteria and is approved.

Mar-07

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