

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal 501**.

## **METHOD STATEMENT: MasterSeal 501**

### **1. PREPARATION:**

- 1.1. Concrete surfaces to which **MasterSeal 501** is to be applied must be free of compounds that may block the pores and capillaries of the concrete.
- 1.2. Remove oil, grease, curing compounds, paint, water repellents, polymer modified render.
- 1.3. Treat the surface by grinding, high-pressure water jetting or grit blasting to leave a lightly textured open surface. Ensure that laitance and friable matters are removed from the surface during treatment.
- 1.4. Honeycombing shall be cut out and repaired with **MasterEmaco S 488**  
(refer to **MasterEmaco S 488** method statement)
- 1.5. Live water leaks shall be sealed with **MasterSeal 590** or injected through packers using **MasterSeal 901** or **MasterSeal 1320** injection resins. For water tanks with external face of wall exposed, it is ideal to fill the water tank completely with water to allow treatment of leaks. (refer to the respective method statement of injection resins or contact Technical Services Department for more information on suitable injection resins)

### **2. MIXING:**

- 2.1. Water is mixed with **MasterSeal 501** powder at two volumes of water to 4.5 or 5 volumes of **MasterSeal 501** powder.
- 2.2. Add the water to the powder while mixing.
- 2.3. Use a rod or drill and paddle depending on the volume being mixed, to mix to a smooth lump free consistency.
- 2.4. Mix only that amount of **MasterSeal 501** than can be applied within 15 - 20 minutes from mixing.

### **3. APPLICATION:**

- 3.1. The surface to which the **MasterSeal 501** is to be applied must be damp, preferably in a saturated but surface dry condition, with no standing or running water on the surface.
- 3.2. Apply by brush to the damp substrate at the rate of 1kg/m<sup>2</sup>.
- 3.3. When the first coat is firm but still green, apply a second coat at right angles to the first at the rate of 1kg/m<sup>2</sup>.

#### 4. CURING:

- 4.1. If the **MasterSeal 501** has been applied in a situation where it may dry rapidly following application, wet curing is required.
- 4.2. Keep the **MasterSeal 501** damp for not less than 5 days by fog spraying with water and covering with polythene sheet.
- 4.3. Do not use curing compounds to cure **MasterSeal 501**.
- 4.4. Filling water tanks 24 hours after application of the final coat will accelerate the growth of crystals in the pores of the concrete. Keeping the water longer provides optimum performance.

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