

MasterProtect® 300

Pigmented, elastomeric and protective waterproof and anti-carbonation coating for concrete and concrete structures

THIS METHOD STATEMENT COVERS PREPARATION AND APPLICATION OF **MasterProtect 300**.

METHOD STATEMENT: MasterProtect 300

1. GENERAL:

- 1.1. The area to be coated shall be marked on the drawings and on the structure.
- 1.2. All areas not to be coated, but which may be affected by spillage or overspray shall be fully masked. Flora and fauna shall be protected.
- 1.3. Any further areas to be coated shall be at the discretion of the Engineer and subject to re-measurement.
- 1.4. All deviations from the original Bill of Quantities or scope of works must be agreed in writing with the Engineer before application starts.

2. PREPARATION:

- 2.1. All surfaces shall be free from oil, grease, friable matter and general curing compounds (wax based curing membranes shall not be used in areas to be overcoated). If **MasterKure 181 or MasterKure 181S** is used as the curing membrane it is suitable for overcoating with **MasterProtect 300**.
- 2.2. Concrete surfaces shall be cleaned using high pressure water jetting, grit blasting or other methods approved by the Engineer.
- 2.3. Arrises shall be rounded off and surface protrusions shall be ground down to ensure a smooth substrate.

Blow-holes and depressions shall be filled with a scrape coat of **MasterProtect 300** mixed with **MasterProtect 300 Filler** (1 to 1 ratio by mass), **MasterProtect FL 100** (Ready to use - Internal & External surfaces) or **MasterProtect FL 200** (Ready to use - Internal surfaces ONLY).
- 2.4. If **MasterKure 181 or MasterKure 181S** is specified as the primer system, the scrape coat shall be applied subsequent to this.

3. PRIMING THE CONCRETE:

- 3.1. Either of **MasterKure 181, MasterKure 181S or MasterTile P 302** shall be used to prime the surface before the application of **MasterProtect 300**.
- 3.2. The **MasterKure 181 or MasterKure 181S** shall be applied by brush, roller or spray at a

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coverage rate of between 4.5-5.5m² per litre.

- 3.3. Allow **MasterKure 181 or MasterKure 181S** to dry tack free (minimum 2 hours) before overcoating.
- 3.4. The **MasterTile P 302** shall be diluted 1:1 with clean water and shall be applied by brush, roller or spray at the following coverage rates:

1st Coat: 5m² - 10m² per litre depending on the substrate porosity.

2nd Coat: 10m² - 14m² per litre

- 3.5. Allow **MasterTile P 302** to dry tack free (minimum 2 hours) before over coating.

4. TEMPERATURE CONDITIONS:

- 4.1. **MasterProtect 300** shall be used when the ambient temperature is above 5°C.
- 4.2. In hot weather, areas to be coated shall be shaded from direct sunlight.

5. MIXING:

- 5.1. **MasterProtect 300** does not require mixing unless it is diluted for spray application.

6. APPLICATION:

- 6.1. **MasterProtect 300** can be applied directly from its container when using a brush or roller.
- 6.2. If **MasterProtect 300** is to be applied by airless spray then a maximum addition of 1.4 litres of clean potable water shall be added to each 20 litre unit of material. A tip size of 17-23 thou shall be used with 45:1 ratio pump.
- 6.3. A continuous coating shall be achieved using a total application rate of not less than 0.64 litres/m². This shall be achieved in a minimum of two coats.
- 6.4. **MasterProtect 300** shall be protected from rain until the film is dry. This will take approximately 30 minutes in hot / dry climates and up to 24 hours in humid conditions. If the humidity rises above 90% application should stop.
- 6.5. Application should not take place when airborne dust or dirt will contaminate the wet coating.
- 6.6. As with all spray applied products, wastage due to overspray in windy weather, can exceed 50%.

7. CURING:

- 7.1. No curing is required.

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