

THIS METHOD STATEMENT COVERS PREPARATION AND APPLICATION OF  
**MasterProtect 185,**

**METHOD STATEMENT: MasterProtect 185 – Automated Spray Equipment**

**1. GENERAL:**

- 1.1. 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.
- 1.2. Any further areas to be coated, shall be at the discretion of the Engineer and subject to re-measurement.
- 1.3. 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 over coated).
- 2.2. Concrete surfaces shall be cleaned using high pressure water jetting, grit blasting or other methods approved by the Engineer. Surface profile equal to ICRI CSP 1-3 (Max) should be achieved.
- 2.3. Arrises shall be rounded off and surface protrusions shall be ground down to ensure a smooth substrate.
- 2.4. All blow holes and other surface defects shall be made good using  
**MasterBrace ADH 2200**  
**MasterBrace ADH 2200 - Mix PTA with PTB until a uniform, streak free colour is obtained.**  
**Full packs only shall be mixed.**
- 2.5. Application shall be by spatula, ensuring blow holes and other minor defects are completely filled.
- 2.6. Allow the applied material to cure for at least 6 hours before sanding down to a smooth finish flush with the concrete surface.
- 2.7. Wipe the prepared surface to remove all dust with a damp clean cloth and allow to dry.

**3. TEMPERATURE CONDITIONS:**

- 3.1. **MasterProtect 185** shall be used when the ambient temperature is above 10°C.
- 3.2. Substrate temperatures should not be less than 10°C. In hot weather areas, to be coated shall be shaded from direct sunlight to prevent the substrate temperature exceeding 40°C.
- 3.3. Coating shall not be applied if the humidity is likely to rise above RH 85% or the dew point is reached before or during the application.

#### 4. MIXING:

- 4.1. Pre-mix both components separately in their respective 200 L drums to ensure all constituents are in suspension.
- 4.2. IF spray rig has agitators fitted to the supply pumps in each drum these would normally suffice.
- 4.3. Ensure the suction pumps are sealed around the drum outlets to prevent dirt etc. entering the system. Air vent of drums to be fitted with a filter to prevent dirt ingress etc.

#### 5. APPLICATION:

- 5.1. Application shall be by airless spray gun using the correct nozzle size to provide the required WFT for each coat. This can only be determined by site based trials as equipment performance varies from one manufacturer to another.
- 5.2. The first coat shall be applied giving total coverage of the prepared area, ensuring a **minimum wet film thickness of 200 microns**. Allow to cure for at least 6 hours (must be tack-free). **MasterProtect 185 being a solvent free material has a wet and dry film thickness that would be the same.**
- 5.3. The coating shall then be inspected for any pinholes or other defects. These shall be made good with **MasterBrace ADH2200**.
- 5.4. The subsequent coat (s) (**WFT 200 microns minimum**) shall be applied within 16 hours at 40°C or 36 hours at 20°C. If the application of the subsequent coat(s) is delayed the previous coat shall be abraded and wiped with a lint free cloth, dampened with Xylene / MEK / Acetone immediately prior to the application of subsequent coats. Allow solvent wipe to fully dry before continuing with the application of subsequent coats.

#### 6. CLEAN UP:

- 6.1. The mixing manifold and spray line and gun etc should be thoroughly cleaned using Xylene / MEK / Acetone solvent whilst the material is still fluid. Once hardened it can only be removed by mechanical means.
- 6.2. IF spray application is to be stopped for a long period of time (>7 days) it would be advisable to flush out the entire system from the delivery pumps right through to the spray tip using Xylene / MEK / Acetone type thinners.
- 6.3. All contaminated solvent used for cleaning purposes should be either recycled or disposed of in the correct manner.

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