

THIS METHOD STATEMENT COVERS PREPARATION AND APPLICATION OF **MasterProtect 180SP**.

METHOD STATEMENT: MasterProtect 180SP – Airless 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 Part A with Part B until a uniform, streak free colour is obtained. Full packs only should be mixed.**

Part mixing can be carried out as long as the ratio (by weight) of the Parts A & B are accurately maintained.

- 2.5. Application shall be by spatula or flexible scrapper, ensuring blow holes and other minor defects are completely filled.
- 2.6. Allow the applied material to cure for at least 12 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 180SP** 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 temperature is within 3°C of the dew point before or during the application.

4. MIXING:

- 4.1. The total contents of the reactor component (**Part B**) shall be poured into the base component (**Part A**) and mixed, using a slow speed drill with suitable mixing attachment. Mixing time shall not be less than 3 minutes until a uniform colour is achieved.
- 4.2. **NOTE: As the kit size is 10 kg, once mixed it is imperative that it is applied immediately.**

Leaving the MasterProtect 180SP as a 10 kg mixed kit in its original container will greatly reduce its pot life, it **MUST** be poured out into the spray equipment's holding tank(s) and be fully discharged within the working time of the product – high ambient temperatures **WILL** greatly reduce this working time. If necessary split between 2 spray machines or have 2 spray guns operating from the one machine to speed up the application time.

Partial mixing is **NOT** recommended but can be done **IF** accurate weighing scales are available to exactly measure out both components to their correct mixing ratios.

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. **A spray nozzle size of around 19-23 thou is the typical that is required BUT this needs to be confirmed by trials on site.**
- 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 180SP 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 equipment, spray line(s) 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. All contaminated solvent used for cleaning purposes should be either recycled or disposed of in the correct manner.

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