

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal M 808**, TWO-COMPONENT, ELASTIC POLYURETHANE, WATERPROOF MEMBRANE, ONTO CONCRETE SUBSTRATE.

METHOD STATEMENT: MasterSeal M 808

1. PREPARATION:

- 1.1. All surface to be coated shall be sound, dry, clean and free from oil, grease, general curing compounds, release agents, friable matters, laitance, previous coatings, organic growth and any other contaminants that may affect the bond adversely.
- 1.2. Suitable cleaning and surface treatment method include ultra-high-pressure water jetting, grit blasting and grinding.
- 1.3. Aggressive percussive methods such as scabbling or scarifying are not recommended unless followed by ultra-high-pressure water jetting, grit blasting or grinding.
- 1.4. Arises shall be rounded off and surface protrusions shall be ground down to ensure a levelled substrate.
- 1.5. Use proper polymer reinforced/modified cementitious products to repair minor defects on concrete. Repair work should not produce a dusty and flaky finish. Larger repairs can be done using products from **MasterEmaco** range of repair products. Contact Technical Service personnel for suitable repair product based on site conditions.
- 1.6. After preparation, concrete and other cementitious substrates must have a minimum pull off strength of 1 N/mm².
- 1.7. Create fillet on corners using sand-cement or repair mortar (30 to 50mm size depending on material strength). Use polyurethane sealant (10-20mm) instead on locations where more movement is expected such as drywall partitions.
- 1.8. Mask all areas, which may be affected by spillage or overcoating, using tapes and polyethylene sheet.

2. PRIMING:

2.1. Dry substrate - MasterTop P 650

- 2.1.1. Mix A and B components of **MasterTop P 650** on a dry and clean container until it is homogeneous and free of streaks.
- 2.1.2. Apply the mixed primer to the substrate using medium pile roller at a rate of 0.15-0.3 kg/m² depending on the porosity and profile of the substrate. Re-apply primer if the substrate has noticeably absorbed the initially application.
- 2.1.3. **MasterTop P 650** should be used within the pot life (approx. 20 minutes @25C).
- 2.1.4. Allow the primer to dry until tack free before applying **MasterSeal M 808** (6-12 hours).

2.2. Damp substrate - MasterEmaco P 2700

- 2.2.1. **MasterEmaco P 2700** is supplied in three separate components.
- 2.2.2. Add Part A and into the Part B components container and mix with a low-speed heavy duty handheld mixer until it is homogeneous and free of streaks.
- 2.2.3. Pour the mixed resins into a large clean mixing bucket (20L minimum) ensuring all mixed resins are thoroughly scrape out. Mix the poured resin slowly while adding the Part C aggregate and continue to mix until a lump free consistency is reached with no signs of dry powder within the mix.
- 2.2.4. Apply the mixed material onto the substrate using a steel trowel. Build up the thickness at minimum 2mm to achieve a moisture barrier primer, consuming at least 3.6 kg/m². Ideally, the material is applied in 2 coats at 1mm thickness per layer.
- 2.2.5. **MasterEmaco P 2700** can also be used as a levelling coat. Do not exceed 2mm thickness per single application layer.
- 2.2.6. Allow 12 hours interval for each layer, and minimum 18 hours prior to any other coatings.

3. MEMBRANE APPLICATION: MasterSeal M 808

- 3.1. **MasterSeal M 808** is a two-component polyurethane coating, supplied in working kits which is pre-packed in exact mixing ratio. Mix the full unit using a slow speed drill, fitted with a mixing paddle, suitable for paints and coatings. Do not mix by hand.
- 3.2. Pour the entire Part B component into the Part A container. Mix the material for at least 3 minutes until uniform consistency is achieved. Keep the mixer blades submerged in the coating to avoid entraining air bubbles. Scrape the sides and bottom of the container several times to ensure complete mixing. Use the mixed content within 20 minutes.
- 3.3. Apply **MasterSeal M 808** using brush or roller at a total coverage rate of 0.4-0.8 kg/m² into two coats for general application. This will provide a dry film thickness of 0.3 – 0.6mm.
- 3.4. Maintain minimum 0.5mm dry film thickness for harsh, abrasive environment and minimum 1.0mm dry film thickness when high chemical resistance is required.
- 3.5. Apply subsequent coats within 6-24 hours.
- 3.6. Allow the final coat to dry for 72 hours prior to exposure to water.

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