

# THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal M 616**, UV RESISTANT, WATER-BASED HYBRID POLYURETHANE SINGLE-COMPONENT ELASTIC WATERPROOF COATING

#### METHOD STATEMENT: MasterSeal M 616

#### 1. EXAMINATION:

- 1.1. Inspect areas involved in work to establish extent of work, access, and need for protection of surrounding construction.
- 1.2. Protect surroundings from primers, patching repair compounds, and waterproofing products, including, but not limited to, windows, roofs, walkways, drives, automobiles, and landscaping.
- 1.3. Inspect expansion joints to ensure no deteriorated sealant, adhesion loss, or nonelastomeric caulks installed in joints. Repair deficient sealant or caulk with **MasterSeal** sealants.
- 1.4. Inspect through-deck penetrations, including electrical, lighting, signage, plumbing, HVAC, and fire sprinkler piping for watertight seal. Repair deficiencies with **MasterSeal** sealants.

#### 2. **PREPARATION**:

#### 2.1. Surface Preparation - Concrete Substrate

- 2.1.1. All surfaces shall be free from oil, grease and friable matter and general curing compounds (wax-based curing membranes shall not be used in areas to be overcoated).
- 2.1.2. Concrete surfaces shall be cleaned using high pressure water jetting, grit blasting or surface grinding.
- 2.1.3. Arises shall be rounded off and surface protrusions shall be ground down to ensure a smooth substrate.
- 2.1.4. Repair voids, honeycombs and undulation using proprietary products from **MasterEmaco** range.
- 2.1.5. Treat concrete joints, wall-floor connections and cracks with a bandage of 200mm wide **MasterSeal M 616** reinforced with a 50-60 g/m<sup>2</sup> geotextile.

#### 2.2. Surface Preparation – Masonry Substrate

- 2.2.1. All surfaces shall be free from oil, grease, dust and any friable matter.
- 2.2.2. Bedding plaster and mortars need to be sound and firmly adherent to the substrate. Any repairs need to be made with mortar from the **MasterEmaco** range, suitable for the specific use.
- 2.2.3. Treat all wall-floor connections with a bandage of 200mm wide **MasterSeal M 616** reinforced with a 50-60 g/m<sup>2</sup> geotextile.



## 2.3. Surface Preparation - Metal Roof

- 2.3.1. All surfaces shall be free from oil, grease, dust, and any friable matter.
- 2.3.2. Old steel and metal sheet need to be sand blasted, or wire brushed sufficiently to remove rust and/or hardened dirt.
- 2.3.3. Wipe the surface with cleaning solvent to remove any contaminants.
- 2.3.4. Close any small gaps and holes using a suitable sealant from **MasterSeal** range.
- 2.3.5. Larger gaps may require sealing using MasterSeal GP Foam.
- 2.3.6. Joints and sheet overlaps shall be pre-treated with a bandage of 200mm wide **MasterSeal M 616** reinforced with a 50-60 g/m<sup>2</sup> geotextile.

#### 2.4. Surface Preparation – Spray applied PU foam

- 2.4.1. Prepare any necessary levelling, cutting, and filling on PU foam prior to coating application.
- 2.4.2. Ensure substrate is clean. All surfaces shall be free from oil, grease, dust, and any friable matter.
- 2.4.3. Wipe the surface with cleaning solvent to remove any contaminants, if required.

#### 2.5. PRIMING:

- 2.6. For concrete, masonry, and absorbent substrates, use **MasterSeal M 616** as a primer, diluted with 10% clean water. Apply a single coat at a coverage rate of 0.3kg/m<sup>2</sup>.
- 2.7. For metal and non-absorbent substrates, use **MasterSeal P 770** primer applied using brush or roller at a rate of 0.25-0.4 kg/m<sup>2</sup>.

## 3. APPLICATION:

- 3.1. Stir **MasterSeal M 616** using a low-speed (350-400rpm) drill, with a suitable spiral mixing paddle.
- 3.2. Apply the first coat at a rate of 0.5-1.0 kg/m<sup>2</sup> and allow to dry (Min. 5 hours).
- 3.3. Once the first coat is dry, apply the second coat at a rate of 0.5-1.0 kg/m<sup>2</sup> in perpendicular direction.
- 3.4. If the coating is to be laid over with tiles using proprietary adhesives, blind the last layer with **MasterTop SR 3** silica sand at a rate of 1-2 kg/m<sup>2</sup> while still wet. Remove excess sand after 24 hours using a stiff broom/brush and vacuum cleaner.
- 3.5. Allow the final application to dry for at least 24hrs before exposure to water.

## 4. CLEANING:

- 4.1. Wet **MasterSeal M 616** can be cleaned using water.
- 4.2. Dried material can only be removed mechanically.





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