

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal Traffic 1332**.

**METHOD STATEMENT: MasterSeal Traffic 1332 - SMOOTH FINISH FOR PEDESTRIAN, PLANT ROOMS, SERVICE ROOMS AND MECHANICAL ROOMS.**

**1. SUBSTRATE PREPARATION:**

- 1.1. Prior to starting preparation, close the area to be prepared to all traffic and other trades.
- 1.2. The preferred methods of substrate preparation are; captive blasting using medium shot, high pressure water jetting, scarifying (using Bartel, Erut, Von Arx or similar equipment) or surface grinding.

NOTE: Acid etching should not be used.

- 1.3. If any part of the floor is contaminated by oil, grease or fuel, the contamination should be removed before other forms of preparation are undertaken.
- 1.4. At free edges such as aiseways and doorways the floor topping should be terminated properly. Cut a groove in the substrate along the line of termination. The groove should be at least as deep as the thickness of the topping with the inner edge cut at a 20° angle.
- 1.5. Prepare the concrete substrate using the chosen method, removing all laitance and weak or friable concrete. The finished surface should have the texture of medium sandpaper.
- 1.6. Surface defects exposed during surface preparation such as shrinkage cracks, blow holes, minor honey combing, minor damage to joint arrises, etc. shall be filled with **MasterTop 2200** a thixotropic two component surface filler.
- 1.7. Cracks that may be live should have a band of either **MasterSeal TC 257** or **MasterSeal TC 258** 50mm wide applied along the length of the crack and filling the crack. Thickness of the coating should be **0.8 mm - 1.0 mm**.
- 1.8. Larger repairs can be carried out using products from the **MasterEmaco** repair range.
- 1.9. NOTE: When it is known prior to starting work on the floor that repairs are required, the repairs should be executed before general preparation is undertaken.
- 1.10. Remove joint sealant if existing.
- 1.11. Place joint backer rod in joints, with the top of the backer rod with the floor surface. Push nails between the backer rod and the side of the joint, leaving the nails protruding, to act as markers. **MasterSeal Traffic 1332** will be laid over the joint, the joint being cut out later.
- 1.12. When floor preparation is complete, vacuum the area to remove all dust and debris.

1.13. Protect areas such as the bottom of walls and columns that may be splashed.

1.14. Place 50mm wide masking tape along free edges.

## **2. CONDITIONING / PRIMING:**

### **2.1. Option 1: MasterTop P 650**

**(Low Viscosity Two Component Primer for Dense, Low Porous Substrates)**

2.2. Mix the PTA and PTB of **MasterTop P 650** together until it is free of streaks.

2.3. Apply the mixed **MasterTop P 650** to the substrate, using a medium pile roller at the coverage rate of **0.15 kg - 0.30 kg/m<sup>2</sup>** depending on the absorption of the substrate. Dry / matt areas must be re-primed.

2.4. Avoid applying the **MasterTop P 650** over the cracks treated with **MasterSeal TC 257** or **MasterSeal TC 258**.

2.5. Allow to cure for 5 hours at 20°C.

### **2.6. Option 2: MasterTop P 651 (High Build Three Component Primer)**

2.7. Mix the PTA and PTB of **MasterTop P 651** together, for a minimum of one minute until it is free of streaks and then add the PTC powder and mix for 2 minutes until a uniform even mix is achieved.

2.8. Apply the mixed **MasterTop P 651** to the substrate, using a medium pile roller at the rate of **0.3 kg - 0.35 kg/m<sup>2</sup>** depending on the absorption of the substrate. Dry / matt areas must be re-primed.

2.9. Avoid applying the **MasterTop P 651** over the cracks treated with **MasterSeal TC 257** or **MasterSeal TC 258**.

2.10. Allow to cure for 5 hours at 20°C.

## **3. MEMBRANE APPLICATION:**

3.1. Pour the total contents of PTB into the drum containing PTA.

3.2. Using a slow speed (350 - 400 rpm) drill with suitable spiral mixing paddle, mix the two components together until a uniform streak free mix is obtained (minimum mixing time 3 minutes). Always work the mixing paddle around the sides and bottom of the mixing vessel to ensure complete mixing of the components.

3.3. Pour the mixed material into a clean tin and re-mix for one minute.

- 3.4. Apply the **MasterSeal M 866** onto the prepared substrate by roller, brush or airless spray at the coverage rate of **0.5 kg/m<sup>2</sup>**.
- 3.5. Allow to cure for 24 hours at 5°C.

**4. INTERMEDIATE COAT:**

- 4.1. Thoroughly mix the (**Option 1 - MasterSeal TC 240**), (**Option 2 - MasterSeal TC 242**) or (**Option 3 - MasterSeal TC 258**) using a slow speed (350 - 400 rpm) drill with a suitable spiral mixing paddle for two minutes until a uniform colour is achieved. Transfer the mixed material into a clean mixing bucket and mix for a further 30 seconds. Pour the mixed material into suitable paint trays and then apply one coat of either **MasterSeal TC 240**, **MasterSeal TC 242** or **MasterSeal TC 258** by medium pile roller or squeegee as per the following coverage rates:

Product	No of coats	Coverage
<b>Option 1 - MasterSeal TC 240 (Single Component)</b>	<b>1</b>	<b>0.35 kg/m<sup>2</sup></b>
<b>Option 2 - MasterSeal TC 242 (Two Component)</b>	<b>1</b>	<b>0.45 kg/m<sup>2</sup></b>
<b>Option 3 - MasterSeal TC 258 (Single Component)</b>	<b>1</b>	<b>0.35 kg/m<sup>2</sup></b>

- 4.2. Allow to cure for at least 5 hours @ 20°C before over coating.

**5. TOP COAT:**

- 5.1. Thoroughly mix the (**Option 1 - MasterSeal TC 258**) or (**Option 2 - MasterSeal TC 257**) using a slow speed (350 - 400 rpm) drill with a suitable spiral mixing head. Apply one coat of either **MasterSeal TC 258** or **MasterSeal TC 257** by medium pile roller or squeegee per the following coverage rates:

Product	No of coats	Coverage
<b>Option 1 - MasterSeal TC 258 (Single Component)</b>	<b>1</b>	<b>0.25 kg/m<sup>2</sup></b>
<b>Option 2 - MasterSeal TC 257 (Two Component)</b>	<b>1</b>	<b>0.25 kg/m<sup>2</sup></b>

- 5.2. Allow to cure 24 hours before applying line marking.

- 5.3. **NB: All the above coverages for each application stage sequence DO NOT include for any wastage factor and material consumption may vary / increase due to the porosity and profile of the concrete substrate.**

## 6. LINEMARKING OPTIONS:

If being applied to a polyurethane based car park deck system such as **MasterSeal Traffic 1330 / MasterSeal Traffic 1331 / MasterSeal Traffic 1332** or any of the **MasterTop Epoxy** based systems, the use of a primer is NOT needed, and the line markings are simply applied as below.

This is typically within 48 hours of the installation of the main floor coating system and if so, there is no surface preparation required other than ensuring a clean, dry and dust-free surface.

### 6.1. MasterTop TC 449 - LINE MARKING COATING (SMOOTH)

#### Line Marking (100mm Wide)

- 6.1.1. Mask off the required designs ensuring the masking tape is well adhered to the surface to prevent bleeding of the resin under the edge of the tape. Use a hard roller if available.
- 6.1.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 6.1.3. Lightly solvent clean the prepared area using a solvent such as MEK / Xylene / Acetone and allow to dry.
- 6.1.4. Apply the 1st coat of the **MasterTop TC 449** line marking coating at the coverage rate of **0.025 litre/lm.** (100mm Wide) (Approx. 100 microns WFT).
- 6.1.5. Allow approx. 2 hours between coats. (Touch Dry)
- 6.1.6. Apply the 2nd coat of the **MasterTop TC 449** line marking coating at the coverage rate of **0.025 litre/lm** (100mm Wide) (Approx. 100 microns WFT) and allow to dry.
- 6.1.7. Allow a minimum of 24 hours before opening to vehicular traffic.
- 6.1.8. Note: Any masking tape used during the application process should be removed before the resin hardens. This requires re masking of the decals / lines in between coats.

OR

### 6.2. MasterTop TC 443LM (See separate product method statement for full details).

- 6.2.1. Mask off the required designs ensuring the masking tape is well adhered to the surface to prevent bleeding of the resin under the edge of the tape. Use a hard roller if available.

- 6.2.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 6.2.3. The areas should then be solvent wiped with a clean lint-free cloth and Acetone / MEK / Xylene to ensure the surfaces are perfectly clean (grease / oil free etc).
- 6.2.4. Mask off the required lines, arrows etc. and apply as per the details on the method statement for the product.

#### **MasterTop TC 443LM – Airless Spray Application**

- 6.2.5. If it is required to carry out the application of larger areas the **MasterTop TC 443LM** can be spray applied using a suitable airless sprayer fitted with 15-20 thou nozzle of a suitable fan width (depending upon design of the floor signage).
- 6.2.6. It may be necessary to dilute the **MasterTop TC 443LM** with a small amount of potable water (up to 5% by volume max) depending upon the spray equipment being used.

**Site trials would be required to determine the best nozzle sizes and line pressures.**

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