

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal Traffic 1331 FPU**.

METHOD STATEMENT: MasterSeal Traffic 1331 FPU

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, or surface grinding with a light captive blast to open the pores of the concrete.

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 aisleways and doorways the floor topping should be terminated properly. Cut a groove in the substrate along the line of termination. The groove to be 3-5 mm in depth.
- 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 **MasterSeal TC 242** 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**.

Note: **MasterSeal TC 242** should be thoroughly mixed as per item 3.0 below.

- 1.8. 2 - 3 hours after the application of the **MasterTop 2200** into the cracks, apply a thin band of **MasterSeal TC 242** on top and then apply a light scatter of aggregate **MasterTop SR 3** whilst still wet.
- 1.9. When the initial floor preparation is complete, vacuum the area to remove all dust, debris and loose sand, etc.
- 1.10. Protect areas such as the bottom of walls and columns that may be splashed.
- 1.11. Place 50 mm wide masking tape along free edges and any day joints that may be required.

APPLICATION PRECAUTIONS TO BE FOLLOWED.

- All products to be pre-conditioned to the correct temperatures for at least 24 hours prior to application (<25°C)
- Surface temperature to be checked and within acceptable limits (>5°C and <35°C)
- **Humidity levels within the area to be checked and MUST be <80%**. If necessary and (is) recommended the areas to be coated should where possible / practical be air-conditioned to ensure the above parameters are met.
- Application should only take place when the surface temperature is at least 3°C above the DEW point and all above conditions are met.

2. PRIMING:

2.1. MasterTop P 243 (High Build Three Component Primer)

- 2.2. Mix the PTA and PTB components of **MasterTop P 243** together, for a minimum of one minute until it is free of streaks and then add the PTC powder component and mix for 2-3 minutes until a uniform even mix is achieved. Mix at low speed (<300 rpm) and with a Collomix DLX 152 M type mixing paddle.
- 2.3. Apply the mixed **MasterTop P 243** to the substrate, using a rubber squeegee or straight edged flooring trowel at a rate of **0.65 kg/m²** and immediately back roll with a short nap paint roller to level out any trowel / squeegee marks. As the pot-life of the **MasterTop P 243** is relatively short it is imperative that an adequate workforce and equipment is on hand.
- 2.4. Immediately and evenly broadcast **MasterTop SR 3** into the wet primer at a rate of **1.5 - 2.0 kg/m²**.
- 2.5. Allow to cure for approx. 12 hours at 25°C. **MUST be overcoated within 24 hours of application irrespective of temperature.** Ensure the applied primer coat is NOT exposed to water or moisture / high levels of humidity during this period.

3. TOP COAT:

3.1. MasterSeal TC 242 (Two Component Polyurethane)

- 3.2. Thoroughly mix the **MasterSeal TC 242** PTA and PTB using a slow speed (350 – 400 rpm) drill with a suitable mixing paddle (Collomix DLX 152 M) 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 a single coat of **MasterSeal TC 242** by a medium pile roller at a coverage rate of **0.65 kg/m²** and **within 24 hours of the primer being applied.**

- 3.3. 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.
- 3.4. Excessive application of the **MasterTop SR 3** aggregates may increase the consumption of material for the subsequent topcoat – **MasterTop TC 242**.
- 3.5. The approximate total dft is 2 mm, depending on application.

4. **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.

4.1. **MasterTop TC 449 - LINE MARKING COATING (SMOOTH)**

Line Marking (100mm Wide)

- 4.1.1. 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.
- 4.1.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 4.1.3. Lightly solvent clean the prepared area using a solvent such as MEK / Xylene / Acetone and allow to dry.
- 4.1.4. 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).
- 4.1.5. Allow approx. 2 hours between coats. (Touch Dry)
- 4.1.6. 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.
- 4.1.7. Allow a minimum of 24 hours before opening to vehicular traffic.
- 4.1.8. 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

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

- 4.2.1. 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.
- 4.2.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 4.2.3. 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).
- 4.2.4. 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

- 4.2.5. 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).
- 4.2.6. 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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