

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

METHOD STATEMENT: MasterSeal Traffic 1331 - DRIVING LANES & PARKING BAYS

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, 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 aisleways 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.
- 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 240** or **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 240** should be thoroughly mixed before use. **MasterSeal TC 242** should be thoroughly mixed as per Item 3.1 below.

- 1.8. After 2-3 hours apply a thin coat of either **MasterSeal TC 240** or **MasterSeal TC 242** on top of the previously applied band, then apply a light scatter of aggregate **MasterTop SR 2** or **MasterTop SR 3**.
- 1.9. **NOTE: Un-bonded saw cut joints should be fully primed using MasterTop P 650 / MasterTop P 651 and filled with MasterSeal M 866.**
- 1.10. When floor preparation is complete, vacuum the area to remove all dust and debris.
- 1.11. Protect areas such as the bottom of walls and columns that may be splashed.
- 1.12. 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/m²** depending on the absorption of the substrate. The surface of the primer must be wet and glossy at the time of applying the aggregate scatter. Dry / matt areas must be re-primed.
- 2.4. Avoid applying the **MasterTop P 650** over the cracks treated with **MasterSeal TC 240** or **MasterSeal TC 242**.
- 2.5. Broadcast **MasterTop SR 2 or MasterTop SR 3** into the wet and glossy primer at the rate of **0.6 kg/m²** to achieve the desired surface profile.
- 2.6. Allow to cure for 5 hours at 20°C.
- 2.7. **Option 2: MasterTop P 651 (High Build Three Component Primer)**
- 2.8. 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.
- 2.9. Apply the mixed **MasterTop P 651** to the substrate, using a medium pile roller at the rate of **0.3 kg - 0.35 kg/m²** depending on the absorption of the substrate. The surface of the primer must be glossy at the time of applying the aggregate scatter. Dry / matt areas must be re-primed.
- 2.10. Avoid applying the **MasterTop P 651** over the cracks treated with **MasterSeal TC 240** or **MasterSeal TC 242**.
- 2.11. Broadcast **MasterTop SR 2 or MasterTop SR 3** into the wet primer at the minimum rate of **1.0kg/m²**.
- 2.12. Allow to cure for 5 hours at 20°C.

3. TOP COAT:

3.1. Option 1: MasterSeal TC 242 (Two Component Polyurethane)

3.2. Thoroughly mix the **MasterSeal TC 242** Part A and Part B 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 two coats of **MasterSeal TC 242** by a medium pile roller as per the following coverage rates and over coating times:

Product	No of coats	Coverage
1st Coat		
MasterSeal TC 242	1	0.6 kg/m²
Allow to cure for at least	5 hours at 20°C	before over coating
2nd Coat		
MasterSeal TC 242	1	0.25 kg/m²
Allow to cure for at least	5 hours at 20°C	before over coating

4. Option 2: MasterSeal TC 240 (One Component Polyurethane)

4.1. Thoroughly mix the **MasterSeal TC 240** Part A 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 two coats of **MasterSeal TC 240** by a medium pile roller as per the following coverage rates and over coating times:

4.2.

Product	No of coats	Coverage
1st Coat		
MasterSeal TC 240	1	0.45 kg/m²
Allow to cure for at least	5 hours at 20°C	before over coating
2nd Coat		
MasterSeal TC 240	1	0.25 kg/m²
Allow to cure for at least	5 hours at 20°C	before over coating

- 4.3. 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.
- 4.4. Excessive application of the **MasterTop SR 2 or MasterTop SR 3** Aggregates may increase the consumption of material for the subsequent Intermediate and Top Coats.

5. 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.

5.1. MasterTop TC 449 - LINE MARKING COATING (SMOOTH)

Line Marking (100mm Wide)

- 5.1.1. 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.
- 5.1.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 5.1.3. Lightly solvent clean the prepared area using a solvent such as MEK / Xylene / Acetone and allow to dry.
- 5.1.4. 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).
- 5.1.5. Allow approx. 2 hours between coats. (Touch Dry)
- 5.1.6. 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.
- 5.1.7. Allow a minimum of 24 hours before opening to vehicular traffic.
- 5.1.8. 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

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

- 5.2.1. 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.

- 5.2.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 5.2.3. 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).
- 5.2.4. 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

- 5.2.5. 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).
- 5.2.6. 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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