

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterTop 1324**.

METHOD STATEMENT: MasterTop 1324 (Smooth and Anti-Slip Finish)

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. Surface profile to be CSP 2-3 (80 grit sandpaper)
Acid etching is not recommended.
- 1.3. If any part of the floor is contaminated by oil, grease or fat, the contamination should be removed before other forms of preparation are undertaken.
- 1.4. At free edges such as aisle-ways and doorways the floor topping should be terminated properly. Cut a groove in the substrate along the line of termination. The groove to 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 to coarse 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** thixotropic two component surface filler.
- 1.7. Larger repairs can be carried out using products from the **MasterEmaco** or **MasterTop BC 1215 / MasterTop BC 1235 / MasterTop BC 1245** repair range.
- 1.8. 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.
- 1.9. Remove joint sealant if installed.
- 1.10. Place joint backer rod in joints, with the top of the backer rod either flush or 1-2mm above the floor surface. Push nails into the centre of the backer rod (central within the joint), leaving the nails protruding, to act as markers. **MasterTop BC 375N** will be laid over the joint, the joint being cut out later.
- 1.11. When floor preparation is complete, vacuum the area to remove all dust and debris.
- 1.12. Protect areas such as the bottom of walls and columns that may be splashed when the wet polyurethane is being rolled with the spiked roller.
- 1.13. Place 50mm wide masking tape along free edges.

Note: The application of a polyurethane based flooring system should only be carried out when the following site-based conditions etc have been checked and confirmed as being within the required limits:

- Surface tensile strength of the concrete / screed > 1.5 N/mm².

- Ambient and Surface Temperature > 10°C & <35°C and at least 3°C above the dew point.
- Relative Humidity < 65%.
- Surface moisture content of <4% when tested with a Tramex or similar electronic moisture meter.

2. PRIMING:

- 2.1. To the clean dry surface, apply **MasterTop P 650** at the rate of **0.15 - 0.30 kg/m²**, depending on porosity and roughness of the substrate and allow curing until tack free.

3. SLIP RESISTANT FINISH: MasterTop BC 375N

- 3.1. Mix the Part A and Part B components of the **MasterTop BC 375N** together for not less than one minute and then slowly add the 15kg of **MasterTop SR 1** and continue to mix for a further 1-2 minutes until a uniform lump free mix is obtained. Pour the material into a clean container and continue mixing for a further 30 seconds.
- 3.2. Apply the mixed material at a minimum rate of **1 kg/m²** using a roller, squeegee or pin-screed. Whilst still wet broadcast **MasterTop SR 3** onto the surface at the rate of **2.0 - 3.0 kg/m²** and allow to cure overnight.
- 3.3. When dry, remove any excess aggregate, then mix and apply a topcoat of **MasterTop BC 375N without the addition of MasterTop SR 1** at minimum rate of **0.6 kg/m²** using a roller or squeegee.
- 3.4. Allow to cure for 12 - 16 hours at 20°C, and then as per the above **Item 5.1**, apply one topcoat of **MasterTop TC 943 / MasterSeal TC 257** (All pigmented) – number of actual coats required to be determined based upon aesthetic requirements, etc.
- 3.5. Keep the completed floor sections totally free of ALL traffic for at least 24 hours after the final application and avoid contact with water for at least 48hrs (23°C / 50% RH).
- 3.6. Note: Any masking tape used during the application process should be removed before the resin hardens.

4. SMOOTH FINISH: MasterTop BC 375N

- 4.1. Mix the Part A and Part B components of the **MasterTop BC 375N** together using a heavy-duty handheld mixer and suitable mixing paddle (Collomix Xo6 + DLX mixing paddle) for 30 seconds and then slowly add the 15 kg of **MasterTop SR 1** and continue mixing until a uniform lump free consistency is obtained. Pour the material into a clean container and continue mixing for a further 30 seconds.
- 4.2. Apply the mixed material at a **MINIMUM** rate of **2.5 kg/m²** using a pin rake or pointed notched trowel. **(NB: 2.5 kg/m² will give a DFT of approx. 1.5 mm).**
- 4.3. **NB:** The above coverage rate does not include for any wastage or the surface profile which should be taken into consideration.
- 4.4. Using spiked shoes and a spiked roller to assist air release and smoothing of the product.
- 4.5. Remove masking tape from free edges before material hardens.

- 4.6. Allow to cure for at least 12 hours at 20° before applying the topcoat BUT do not delay the application of the chosen topcoat beyond 48 hours after application of the **MasterTop BC 375N**.
- 4.7. Avoid contact with water for at least 24hrs (23°C / 50% rh).

5. TOPCOAT: MasterTop TC 442W (Clear / Pigmented) - Smooth Finish Only

- 5.1. Before mixing the **MasterTop TC 442W**, precondition both the Part A and Part B components to a temperature of 15°C - 25°C.
- 5.2. Mix the Part A and Part B components of the **MasterTop TC 442W** with a slow speed drill and spiral paddle (300 - 350 rpm) for at least 3 minutes and avoid any entraining of air into the mix. Pour into a clean container and mix for a further 1 minute.
- 5.3. Apply the mixed material by medium nap / pile roller at the following coverage rates
MasterTop TC 442W (Clear / Pigmented) 0.08 kg – 0.10 kg/m² per coat.
(1 or 2 coats as required) and using a suitable paint tray.
- 5.4. As with all water borne sealers, it is important to avoid dry edges by always working wet in wet when overlapping, otherwise roller marks will be visible in the final finish. Use a max. 400 mm medium nap / pile roller and start in the middle of one of the short sides of the floor. Dip the roller into the mixed material and roll out a strip of **MasterTop TC 442W**, parallel to the wall out to one of the corners. Dip the roller into the material once again and roll out a second strip from the starting point out to the other corner. Move back-ward and repeat these steps, overlapping the first strip by a few cm.
- 5.5. Use a second roller starting in one corner and back roll the **MasterTop TC 442W** without stopping to the other corner. Offset the roller by 100 – 200 mm and roll over again without stopping to the opposite wall. Always roll in the same direction and do not back roll in a criss-cross pattern. When almost all the laid material has been back rolled lay two more strips and back roll as described above. Using this method, the period between the overlapping should not exceed 1 - 4 minutes and visible roller marks will be minimised. Depending on the application method and quantity, **MasterTop TC 442W** can have a light structure without affecting the final properties.

6. Optional: TOPCOAT - MasterTop TC 943 (Pigmented) - Smooth and Slip Resistant Finish

- 6.1. Before mixing the **MasterTop TC 943**, precondition both the Part A and Part B components to a temperature of 15°C - 25°C.
- 6.2. Mix the Part A and Part B components of the **MasterTop TC 943** with a slow speed drill and spiral paddle (300 - 350 rpm) for at least 2 minutes and avoid any entraining of air into the mix. Pour into a clean container and mix for a further 1 minute.

- 6.3. Apply the mixed material by squeegee and medium nap / pile roller at the following coverage rates.

Product	No. of coats	Coverage
MasterTop TC 943 (Pigmented) (Two Component)	1	0.12 kg/m ²

NOTE: Please refer to MasterTop TC 943 Method Statement for application methodology.

7. Optional: TOPCOAT - MasterTop TC 468 (Pigmented) - Smooth Finish Only

- 7.1. Pre-mix the Part A (pigmented) component for 2 -3 minutes to ensure all pigment is in suspension.
- 7.2. Add the Part B component of **MasterTop TC 468** to the Part A and mix together for a further 3 - 4 minutes until a streak free uniform colour is obtained.
- 7.3. Empty into a clean container ensuring all resin is scrapped out and leave to stand of 1 to 2 minutes and then remix for 30 seconds.
- 7.4. Apply the mixed material using a paint tray and suitable short nap paint roller at the rate of **0.10 kg - 0.15 kg/m² per coat.**

NB: Above coverage rate does not include for any wastage.

Note: 2-3 topcoats (MasterTop TC 468) may be required dependent upon project requirements regarding aesthetics, etc.

- 7.5. Allow to cure for 24 hours at 20°C before applying additional coats (if required).

8. Optional: TOPCOAT - MasterSeal TC 257 (Pigmented) – Smooth and Slip Resistant Finish

- 8.1. Pre-mix the Part A (pigmented) component for 2 -3 minutes to ensure all pigment is in suspension.
- 8.2. Add the Part B component of **MasterSeal TC 257** to the Part A and mix together for a further 3 – 4 minutes until a streak free uniform colour is obtained.
- 8.3. Empty into a clean container ensuring all resin is scrapped out and leave to stand of 1 to 2 minutes and then remix for 30 seconds.

9. **CLEANING:** Refer to the appropriate Aftercare Floor Cleaning Concept for the type of finish that has been provided.

Aftercare Floor Cleaning Concept # 5 – Smooth Polyurethane systems

Aftercare Floor Cleaning Concept # 2 – Non-Slip Polyurethane systems

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