

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF
MasterTop 1221A.

METHOD STATEMENT: MasterTop 1221A

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. Acid etching is not recommended.
- 1.3. If any part of the floor is contaminated by oil, grease or fat, the contamination shall be removed before other forms of preparation are undertaken.
- 1.4. At free edges such as aisleways and doorways the floor coating / topping shall 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. **The prepared surface MUST have a tensile pull-off value of at least 1.5 N/mm²**
Application onto a substrate that does not comply with the required pull-off values is extremely risky and would invalidate any warranties that may have been offered.
- 1.7. Surface defects exposed during preparation such as shrinkage cracks, blow holes, minor honeycombing, minor damage to joint arrisses, etc. shall be filled with **MasterTop 2200** a thixotropic two component surface filler.
- 1.8. Larger surface repairs / levelling can be carried out using products from the **MasterEmaco or MasterTop BC 1215 / MasterTop BC 1235 / MasterTop BC 1245** 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 installed.
- 1.11. Place polyethylene joint backer rod in joints, with the top of the backer rod flush with the floor surface. Push nails between the backer rod and the side of the joint, leaving the nails protruding, to act as markers. **MasterTop 1221A** will be applied 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 when the wet epoxy is being rolled with the spiked roller.
- 1.14. Place 50mm wide masking tape along free edges.

2. APPLICATION PROCEDURES:

- 2.1. Before starting application of the coating, ensure that all materials and tools are on hand to allow completion of the work, the floor is dry and dust free.
- 2.2. Ensure that the mixing equipment is adequate, with a backup mixer available in case of a break down.
- 2.3. A heavy-duty handheld mixer (300-600 rpm – Collomix X06 or similar) fitted with a suitable mixing head (Collomix DLX) is ideal for mixing this type of product.
- 2.4. Security of the power supply should be verified.
- 2.5. Spiked shoes are essential pieces of equipment when applying the **MasterTop 1221A system**.
- 2.6. Do not start the application if the substrate and air temperatures are less than 12°C. Ideally the temperatures should be in the range of 18-30°C (at least 3°C above the dew point).
- 2.7. Do not apply when the relative humidity is greater than 85%, or if the dew point is reached.
- 2.8. Do not apply in direct sunlight.
- 2.9. Do not expose to chemical spillage or place in direct contact with water during the first 24-36 hours of curing.
- 2.10. During hot weather it is preferable to apply the **MasterTop 1221A** system in the late afternoon or early evening, when the temperature is falling, if the temperature of the building is not controlled.

3. SURFACE SEALING & PRIMING:

- 3.1. Prior to application of the **MasterTop 1200**, the surface may be primed (if porous), using **MasterTop P 650** diluted with **0.5 litres** of a suitable thinner (Xylene / MEK / Acetone).
- 3.2. Pour the reactor into the base, then mix the components together for 1-2 minutes using a suitable mixer as described above (2.3).
- 3.3. Depending on surface roughness, use a short or medium pile roller, to apply the mixed material to the prepared substrate, ensuring total coverage. Application rates will vary depending on substrate roughness and absorption but should be in the range of **0.15-0.30 kg/m²**.
- 3.4. Allow the primer coat to cure to a tack free state before starting application of the base coat.

4. MIXING OF RESIN BASE COAT:

- 4.1. Pour the contents of the **MasterTop 1200** Reactor (Part B) into the Base (Part A) then mix the components together for at least 1 minute using a suitable mixer as described above (2.3).

5. APPLICATION:

- 5.1. Using a short nap paint roller, spread the resin at the following coverage rate. **(Approx. 0.15-0.20 kg/m²).**
- 5.2. Where there are unprotected edges ensure the **MasterTop 1200** flows into termination grooves previously cut.
- 5.3. Allow the **MasterTop 1200** to settle for 10 minutes before scattering the decorative quartz, if a primer/sealer coat has not been applied. If dry patches appear, then recoat these areas so that a uniform thickness of resin is available on the surface.
- 5.4. Broadcast decorative quartz **MasterTop F11** to saturation onto the wet base coat. **(Approx. 1-2 kg/m²).**
- 5.5. After over-night curing 12 hours min, remove excess aggregate with an industrial vacuum cleaner. Give the floor a light scraping with the edge of the trowel or a light sanding to remove rough spots and loosely bonded aggregates.

6. MIXING OF RESIN: TOP COATS

- 6.1. Pour the contents of the **MasterTop 1200** Reactor (Part B) into the Base (Part A) then mix the components together for at least 1 minute as previously done (4.1).

7. APPLICATION:

- 7.1. Pour the mixed material onto the scattered quartz aggregate and spread using a squeegee or roller to a coverage of **0.15-0.30 kg/m²**.
- 7.2. The quantity of mixed material applied determines the surface profile of the finished system.
- 7.3. Back roll with short nap paint roller.
- 7.4. Depending on the finish required, additional roller coats of **MasterTop 1200** may be required.

8. OPTIONAL – Matt Finish

- 8.1. For a Matt Finish, apply **MasterTop TC 442W Clear** over the cured **MasterTop 1200** at a coverage rate of **0.10-0.12 kg/m² per coat (1-2 coats as required)**.
- 8.2. Ensure the area is closed off to all traffic and allow curing for 48 hours.

9. MOVEMENT JOINTS:

- 9.1. Where joints have been treated as in point 1.10, strike a chalk line along the nails protruding from the joint, remove the nails before cutting along the joint line with a saw or angle grinder, to re-form the joint. Cut the epoxy back to the joint face, remove the sharp arris and reseal the joint.

Note: Any masking tape used during the application process should be removed before the resin hardens.

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