

MasterSeal® Traffic 1500 MD

Medium duty crack-bridging waterproofing system for trafficable decks

THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal Traffic 1500MD**.

METHOD STATEMENT: MasterSeal Traffic 1500MD – 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, high pressure water jetting, scarifying (using Bartel, Erut, Von Arx or similar equipment) or surface grinding.
- 1.3. NOTE: Acid etching should not be used.
- 1.4. 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.
- 1.5. 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 to be at least as deep as the thickness of the topping with the inner edge cut at a 20° angle.
- 1.6. 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.
- 1.7. 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.
- 1.8. Cracks that may be live should have a band of either **MasterSeal TC 258** or **MasterSeal TC 268**, 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**.
- 1.9. Larger repairs can be carried out using products from the **MasterEmaco** repair range.
- 1.10. 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.
- 1.11. Remove joint sealant if existing.
- 1.12. 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 1500MD** will be laid over the joint,

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the joint being cut out later.

- 1.13. When floor preparation is complete, vacuum the area to remove all dust and debris.
- 1.14. Protect areas such as the bottom of walls and columns that may be splashed.
- 1.15. Place 50mm wide masking tape along free edges.

2. CONDITIONING / PRIMING:

- 2.1. **Option 1: MasterTop 1140/2525** (Low Viscosity Two Component Primer for Dense, Low Porous Substrates)
- 2.2. Mix the A and B components of **MasterTop Primer** together until it is free of streaks.
- 2.3. Apply the mixed **MasterTop Primer** to the substrate, using a medium pile roller at the coverage rate of **0.20 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 Primer** over the cracks treated with either **MasterSeal TC 258** or **MasterSeal TC 268**.
- 2.5. Broadcast **MasterTop Fillers** into the wet and glossy primer at the rate of **0.6 - 1 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 Part A and Part B components of **MasterTop P 651** together, for a minimum of one minute until it is free of streaks and then add the Part C powder component 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 Primer** over the cracks treated with either **MasterSeal TC 258** or **MasterSeal TC 268**.
- 2.11. Broadcast **MasterTop Filler** into the wet primer at the minimum rate of **1.0 kg/m²**.
- 2.12. Allow to cure for 5 hours at 20°C.

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3. MEMBRANE APPLICATION:

- 3.1. Pour the total contents of Component B into the drum containing Component A.
- 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 860** onto the prepared substrate by roller, brush or airless spray at the coverage rate of **2 kg/m²**.
- 3.5. Into the wet **MasterSeal M 860**, broadcast the aggregate **MasterTop Fillers** at the rate of **1.0 kg/m²**.
- 3.6. Allow to cure for 12 hours at 25°C - 35°C then remove any excess aggregate.

4. INTERMEDIATE COAT:

- 4.1. Thoroughly mix the (**Option 1 - MasterSeal TC 258**), (**Option 2 - MasterSeal TC 268**) or (**Option 3 - MasterSeal TC 258**) using a slow speed (350 - 400 rpm) drill with 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
Option 1 - MasterSeal TC 240 (Single Component)	1	0.45 kg/m²
Option 2 - MasterSeal TC 258 (Single Component)	1	0.5 kg/m²
Option 3 - MasterSeal TC 268 (Two Component)	1	0.40 kg/m²

- 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**), (**Option 2 - MasterSeal TC 268**)

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using a slow speed (300 - 400 rpm) drill with a suitable spiral mixing paddle. Apply one coat of either **MasterSeal TC 258** or **MasterSeal TC 268** by medium pile roller or squeegee as per the following coverage rates:

Product	No of coats	Coverage
Option 1 - MasterSeal TC 258 (Single Component)	1	0.40 kg/m²
Option 2 - MasterSeal TC 268 (Two Component)	1	0.40 kg/m²

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

6. Line Marking (100mm Wide)

6.1. MasterTop TC 444 – Line Marking Coating (Smooth)

- 6.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 6.3. Lightly solvent clean the prepared area using **MasterTop THN 2** and allow to dry.
- 6.4. Apply the 1st coat of the **MasterTop TC 444** line marking coating at the coverage rate of **0.025 litre/lm.** (100mm Wide) (Approx. 100 microns)
- 6.5. Allow approx. 2 hours between coats. (Touch Dry)
- 6.6. Apply the 2nd coat of the **MasterTop TC 444** line marking coating at the coverage rate of **0.025 litre/lm** (100mm Wide) (Approx. 100microns) and allow to dry.
- 6.7. Allow a minimum of 24 hours before opening to vehicular traffic.
- 6.8. Note: Any masking tape used during the application process should be removed before the resin hardens.

7. Optional: MasterTop TC 444 – Line Marking Coating + Reflective Glass Beads

- 7.1. Refer to the **BASF** Technical Service Department for a Project Specific Method Statement.

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THIS METHOD STATEMENT COVERS THE PREPARATION AND APPLICATION OF **MasterSeal Traffic 1500MD**.

METHOD STATEMENT: MasterSeal Traffic 1500MD - 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.
- 1.3. NOTE: Acid etching should not be used.
- 1.4. 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.
- 1.5. 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 to be at least as deep as the thickness of the topping with the inner edge cut at a 20° angle.
- 1.6. 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.
- 1.7. 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.
- 1.8. Cracks that may be live should have a band of **MasterSeal TC 258** or **MasterSeal TC 268**, 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**.
- 1.9. Larger repairs can be carried out using products from the **MasterEmaco** repair range.
- 1.10. 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.
- 1.11. Remove joint sealant if existing.
- 1.12. 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 1500MD** will be laid over the joint, the joint being cut out later.

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- 1.13. When floor preparation is complete, vacuum the area to remove all dust and debris.
- 1.14. Protect areas such as the bottom of walls and columns that may be splashed.
- 1.15. Place 50mm wide masking tape along free edges.

2. CONDITIONING / PRIMING:

- 2.1. **Option 1 – MasterTop P 1140
(Low Viscosity Two Component Primer for Dense, Low Porous Substrates)**
- 2.2. Mix the A and B components of **MasterTop Primer** together until it is free of streaks.
- 2.3. Apply the mixed **MasterTop Primer** 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. Dry / matt areas must be re-primed.
- 2.4. Avoid applying the **MasterTop Primer** over the cracks treated with either **MasterSeal TC 258 or MasterSeal TC 268**.
- 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 Part A and Part B components of **MasterTop P 651** together, for a minimum of one minute until it is free of streaks and then add the Part C powder component 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/m²** 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 either **MasterSeal TC 258 or MasterSeal TC 257**.
- 2.10. Allow to cure for 5 hours at 20°C.

3. MEMBRANE APPLICATION:

- 3.1. Pour the total contents of Component B into the drum containing Component A.
- 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.

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- 3.4. Apply the **MasterSeal M 860** onto the prepared substrate by roller, brush or airless spray at the coverage rate of **1.5 kg/m²**.
- 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 258**) or (**Option 3 - MasterSeal TC 268**) 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 258** or **MasterSeal TC 268** by medium pile roller or squeegee as per the following coverage rates:

Product	No of coats	Coverage
Option 1 - MasterSeal TC 240 (Single Component)	1	0.35 kg/m ²
Option 2 - MasterSeal TC 258 (Single Component)	1	0.40 kg/m ²
Option 3 - MasterSeal TC 268 (Two Component)	1	0.30 kg/m ²

- 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 268**) 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 268** by medium pile roller or squeegee per the following coverage rates:

Product	No of coats	Coverage
Option 1 - MasterSeal TC 258 (Single Component)	1	0.30 kg/m ²
Option 2 - MasterSeal TC 268 (Two Component)	1	0.30 kg/m ²

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- 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. Line Marking (100mm Wide)

- 6.1. **MasterTop TC 444 – Line Marking Coating (Smooth)**
- 6.2. Lightly abrade the area for the line marking and vacuum off all the dust and debris.
- 6.3. Lightly solvent clean the prepared area using **MasterTop THN 2** and allow to dry.
- 6.4. Apply the 1st coat of the **MasterTop TC 444** line marking coating at the coverage rate of **0.025 litre/lm.** (100mm Wide) (Approx 100 microns)
- 6.5. Allow approx. 2 hours between coats. (Touch Dry)
- 6.6. Apply the 2nd coat of the **MasterTop TC 444** line marking coating at the coverage rate of **0.025 litre/lm** (100mm Wide) (Approx 100microns) and allow to dry.
- 6.7. Allow a minimum of 24 hours before opening to vehicular traffic.
- 6.8. Note: Any masking tape used during the application process should be removed before the resin hardens.

7. Optional - MasterTop TC 444 – Line Marking Coating + Reflective Glass Beads

- 7.1. Refer to the **BASF** Technical Service Department for a Project Specific Method Statement.

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