

THIS METHOD STATEMENT COVERS THE SURFACE PREPARATION, MIXING & HAND APPLICATION OF **MasterTop 522**, A MOISTURE-RESISTANT, SINGLE COMPONENT, SELF-SMOOTHING, FAST SETTING, CEMENT BASED FLOOR UNDERLAYMENT (THICKNESS 2-40mm).

METHOD STATEMENT: MasterTop 522 (Hand Application)

APPLICATION METHOD

1. SUBSTRATE PREPARATION:

- 1.1. Identify the area to be treated with the **MasterTop 522**.
- 1.2. Repairs to the floor substrates (if required) should be carried out before the application of **MasterTop 522**.
- 1.3. Repairs at joints (if present) should be carried out as per the Master Builders Solutions Joint Repair Procedure.
- 1.4. The surface must be mechanically prepared to remove laitance or contaminants such as oil, grease, adhesives or resin coatings /compounds.
- 1.5. This is best achieved by abrasive tools such as diamond grinders for small areas or captive shot blasting/scarifying for larger areas.
- 1.6. Vacuum the prepared surface to remove dust and other debris.

2. SEALING / PRIMING:

- 2.1. Pre-wet floor with clean water and completely remove any standing water.
- 2.2. Roller apply the first seal coat of **MasterTile P 302** (at approx rate of 0.2 L/m²), to the pre-wet floor, mixed at a ratio of 1:1 with water, to seal to the concrete surface.
- 2.3. **NB:** Do not allow the material to “pond” and once applied allow to surface dry.
- 2.4. Absorbent / Porous Substrates should be primed twice. Roller apply the second sealer coat of **MasterTile P 302** (at approx rate of 0.07 L/m²) mixed at a ratio of 1:1 with water.
- 2.5. **NB:** Do not allow the material to “pond” and once applied allow to surface dry.

3. MIXING / APPLICATION:

- 3.1. Install temporary barrier strips to prevent the compound from overflowing into perimeter joints or drains and close any windows and doors to ensure a draught free environment. In warm or hot weather ensure cool water is available for mixing. Store the bags of **MasterTop 522** in a cool dry area.

- 3.2. Once the primer / sealer coat is dry, the **MasterTop 522** can be mixed and applied as per the table below:

Thickness	Mix Proportions	Application Method	Mix Yield
2-40mm	1 x 25 kg bag MasterTop 522 mixed with 5.0 L of potable water	Self-smoothing. Notch trowel / pin screed, spike roller	15 L

- 3.3. Use chilled water (<10°C) at high ambient temperatures (>30°C) for longer working time. Ideally the overall mix temperature should not exceed 25°C and should be placed within 5 minutes.
- 3.4. Place the required amount of mixing (chilled/potable) water (**5.0 L**) into a suitable container. Using a suitable slow speed (<600 rpm) drill fitted with a mixing paddle, ideally a Collomix DLX. Start mixing while slowly adding the powder within 2 minutes and then mix for another 1 minute.
(Total mixing time 3 minutes minimum)
Allow the mixed **MasterTop 522** material to stand for another 3 minutes and then remix for 1 minute prior to application.
- 3.5. **NB:** A minimum of 2 mixing containers is required and a spare mixing drill should also be available in case of breakdown.
- 3.6. Once mixed, apply the **MasterTop 522** to the prepared sealed and dry floor by pouring out to the required thickness by notched trowel or pin screed.
(2–40mm maximum)
NB: If a greater thickness than 40mm is required, please consult a Master Builders Solutions Technical Representative.
- 3.7. Spike roller the applied material to assist air release and to minimize pinholes.
- 3.8. Allow to dry naturally (no curing is required), but at all times protect from drying through exposure to surface winds and sunlight by covering with a polyethylene sheet as soon as the material is walkable.
- 3.9. Final floor finish can be applied over **MasterTop 522** when it can be walked on. This time is dependent on thickness, substrate and ambient temperatures but generally should be around 6-8 hours.
Do not apply MasterTop 522 at substrate temperatures below 5°C and above 35°C.
- 3.10. In conditions of low humidity; high ambient temperatures (>30°C); direct sunlight or draught, the installation must be shaded or sheltered, and the surface covered with a polyethylene sheet as soon as it is firm enough to walk on to prevent it drying too fast.
- 3.11. Sudden temperature changes during application must be avoided.
- 3.12. Wax curing compounds should be removed by mechanical means prior to application of a subsequent adhesive layer.
- 3.13. Cold joints to be avoided at all costs. Ensure adequate mixing and placing personnel and equipment are available to ensure continuous installation to day joints.

STATEMENT OF RESPONSIBILITY

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