

Method Statement

THIN SECTION EPOXY BUILD-UP REPAIRS FOR CONCRETE SUBSTRATES BELOW MasterTop FLOORING SYSTEMS

Proposed Products

PRODUCT	DESCRIPTION	PACK SIZE	APPROX. YIELD
MasterTop P 650	Epoxy Binder / Primer	15 kg unit	13.75 L (Approx.)
MasterTop SR 1	Graded Aggregates	25 kg Bag	-
MasterTop SR 3	Graded Aggregates	25 kg Bag	-
MasterTop 2200	Epoxy Filler		-
Xylene, MEK, Acetone	Thinner	Supplied by others	

Proposed Mix Proportions

1	Minor surface defects	Use MasterTop 2200 (Not to be skimmed over the floor)
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Mix No	Description	MasterTop SR 1	MasterTop SR 3	MasterTop P 650	Approx. Yield
2	Up to 2 mm	25 kg	-	4 L	14 L Approx.
3	Above 2 mm	25 kg	25 kg	4 L	27 L Approx.

NB: The above yields are approximate.

The actual site conditions of the substrate should be taken into consideration when estimating the coverage.

Repair Mix No. 1 – Minor Surface Defects

MasterTop 2200 can be used for repairing blowholes, minor repairs and cracks as required.

NB: Not to be skimmed over the complete concrete substrate.

Repair Mix No. 2 – For Thickness up to 2 mm

For very thin section repairs, the mix should be approx. 4 L of **MasterTop P 650** mixed with approx. 15 kg – 25 kg of **MasterTop SR 1** depending on repair requirement and applied by rubber squeegee or trowel to the prepared substrate area. The above mix no. 2 will yield approximately 14 L of mixed product which will cover 8 m² at 2 mm thick.

Repair Mix No. 3 – For thicknesses over 2 mm

The above mix no.3 will yield approximately 27 L of mixed product which will cover 2.8 m² at 10 mm thick. This mix is applied onto wet and tacky primer using **MasterTop P 650** applied at a rate of 0.2 kg/m². Please note, a forced action mixer will be required to mix this build up epoxy materials, a drill and paddle or a cement mixer will not be suitable.

1. SUBSTRATE PREPARATION:

- 1.1. The preferred methods of substrate preparation are; captive blasting, scarifying or grit blasting. Acid etching is not recommended.
- 1.2. Light contaminations of oil, grease, fats or similar should be removed before starting other forms of preparation using degreasing solutions. If deep contamination is present it should be treated by hot compressed air.
- 1.3. High spots shall be ground off and low spots filled out.
- 1.4. When repairs and leveling are complete, the final surface preparation shall be carried out to remove all laitance and weak or friable concrete, leaving aggregate exposed.
- 1.5. Remove all dust and debris from the prepared surface.
- 1.6. Close the prepared areas to vehicular and pedestrian traffic.

2. PRIMING: (For mix no. 3 only)

- 2.1. Prime the prepared concrete substrate using **MasterTop P 650**.
- 2.2. Mix components PTA and PTB together using a paint stirrer, pallet knife or similar until it is streak free.
- 2.3. Using a paint brush or medium pile paint roller, apply the mixed primer to the prepared substrate.
- 2.4. Allow the primer to wet out the concrete for 30 minutes before applying the epoxy repair mortar Note: Epoxy mortar must always be applied into wet primer.

3. MIXING:

- 3.1. Forced action mixers such as mixal, creteangle or similar are preferred.
- 3.2. Pour the total contents of the PTA and PTB resin components into the mixing vessel, then mix until a uniform streak free colour is obtained.
- 3.3. With the mixer running, pour the total aggregate steadily into the mixer, and mix for a further four minutes.

4. APPLICATION:

- 4.1. Mix No. 1 - This can be applied by paint scraper.
- 4.2. Mix No. 2 - Apply mixed material to prepared area by rubber squeegee/trowel.
- 4.3. Mix No. 3 - Spread the mixed epoxy repair mortar by trowel and strike off to level.
- 4.4. Allow to cure overnight.
- 4.5. The floor coating system can now be applied as normal.

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