

THIS METHOD STATEMENT COVERS PREPARATION AND APPLICATION OF **MasterTop 1240**.

**METHOD STATEMENT: MasterTop 1240 (5mm)**

**1. SUBSTRATE PREPARATION:**

- 1.1. The preferred methods of substrate preparation are; captive blasting, scarifying (using Bartel, Erut, Von Arx or similar machines) 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. If the substrate has been damaged by physical or chemical attack, it should be cut back until sound dense uncontaminated concrete is exposed. Repair can be carried out using **MasterTop 1240**. If the repairs are deeper than 15mm the **MasterTop 1240** can be filled out with **MasterTop SR**. For deep repairs use 6-10mm aggregate at 1:1 by weight of aggregate.
- 1.4. When repairs are executed with cementitious products, they should be cured properly before applying the epoxy screed.
- 1.5. If the flatness of the finished floor is important, high spots shall be ground off and low spots filled out.
- 1.6. When repairs and levelling are complete, the final surface preparation shall be carried out to remove all laitance and weak or friable concrete, leaving aggregate exposed.
- 1.7. Remove all dust and debris from the prepared surface.
- 1.8. Close the prepared areas to vehicular and pedestrian traffic.
- 1.9. Set levelling pads if required, to achieve a level surface, and allow to set.
- 1.10. Select flat steel strip of a suitable thickness for use as screed battens, if they are to be used.
- 1.11. The **MasterTop 1240** should not be applied onto any floor substrate where moisture content exceeds 75% RH (+5% moisture content) **BS 8204 – 6: 2001 – Item 9.2.2 (b)**

A water vapour emission control membrane is not required if the moisture content in the parent concrete or screed is less than <5%.

**2. PRIMING:**

- 2.1. Prime the prepared concrete substrate using **MasterTop P 1240/50**.
- 2.2. Mix components A and B together using a paint stirrer, pallet knife or similar until it is streak free.
- 2.3. Using a suitable paintbrush or medium pile roller, apply the mixed primer to the prepared substrate at a minimum coverage rate of **0.2 kg/m<sup>2</sup>**.

(Consumption will depend on the porosity of the concrete substrate)

- 2.4. Allow the applied **MasterTop P 1240/50** primer to wet out the concrete for 30 minutes before applying the **MasterTop 1240**.
- 2.5. If the concrete absorbs the primer in patches giving a matt appearance instead of a wet glossy surface, re-prime the dry areas.
- 2.6. If the concrete is very absorbent or blisters appear in the **MasterTop 1240**, double priming is required, apply primer then lightly scatter **MasterTop SR** onto the wet substrate and allow to cure then prime and lay **MasterTop 1240** as normal.

Note: **MasterTop 1240** must always be applied into wet primer.

- 2.7. Prior to priming, ensure there is sufficient **MasterTop 1240** to complete the intended area.  
Ensure the mixing equipment is working and that a back up mixer is available in case of a breakdown.

When using electrically powered mixing equipment, verify continuity of the power supply. Ensure that sufficient screed battens of the correct thickness are available and clean.

### 3. MIXING: MasterTop 1240

- 3.1. Forced action mixers such as mixal, creteangle, or similar are preferred, but **MasterTop 1240** can be mixed using a heavy-duty slow speed (300 rpm) electric drill fitted with a spiral mortar-mixing paddle if the drill is reversible. The electric drill should be rated at 900 watts or more. A standard spiral mixer can be used.
- 3.2. Pour the total contents of the PTA and PTB resin components into the mixing vessel and mix until a uniform streak free colour is obtained. If a **MasterTop Color Pack** is to be included, add / mix the **MasterTop Color Pack** to the PTA component, before mixing with PTB.
- 3.3. With the mixer running, pour the total contents of the bag of aggregate steadily into the mixer, and mix for a further four minutes.

### 4. APPLICATION: MasterTop 1240 (5mm)

- 4.1. Spread the mixed **MasterTop 1240** between the previously placed screed battens and strike off to level at the following coverage rate:

(a) **28.06 kg Unit yields 13.1 L (Including MasterTop Color Pack)**  
**Approx. 10.70 kg/m<sup>2</sup> - (5 L/m<sup>2</sup>)**  
**Approx. 2.62 m<sup>2</sup>/per 28.06 kg Unit**

(b) **27.66 kg Unit yields 12.9 L (Neutral without MasterTop Color Pack)**  
**Approx. 10.70 kg/m<sup>2</sup> - (5 L/m<sup>2</sup>)**  
**Approx. 2.59 m<sup>2</sup>/per 27.66 kg Unit**

- 4.2. Compact the placed material using a wood or plastic float.
- 4.3. Close the surface using a steel trowel or by using a lightweight power trowel.

(Such as a hovernrowel or similar). Overworking the **MasterTop 1240** can result in burnish marks.

- 4.4. Clean the face of the finishing towels or power trowel regularly by using a cloth dampened with a suitable solvent such as Xylene or MEK during the finishing of the **MasterTop 1240**.

## 5. SEALING: Top Coats

- 5.1. **MasterTop 1240** may be over-coated with **MasterTop 1110**, **MasterTop 1120**, **MasterTop 1205**, **MasterTop TC 941** or **MasterTop 1210** and **MasterSeal TC 258** and **MasterSeal TC 256** depending on specific project requirements.
- 5.2. **MasterTop 1110** or **MasterTop 1205**, **MasterTop 1210** & **MasterTop TC 941** can be applied as soon as the **MasterTop 1240** is hard enough to walk on.
- 5.3. **MasterTop 1240** should be allowed to cure for 72 hours at 20°C before being overcoated with **MasterTop 1120** or **MasterSeal TC 258** & **MasterSeal TC 256** as they are solvented coatings.
- 5.4. **Coverages:**  
**MasterTop 1120 / MasterTop 1110 / MasterTop 1205 / MasterTop 1210:** Standard Coverages.
- 5.5. **MasterTop TC 941: 0.1 kg - 0.14 kg/m<sup>2</sup> per coat** (2 coats required)
- 5.6. **MasterSeal TC 258: 0.35 kg - 0.4 kg/m<sup>2</sup> per coat** (2 coats required)
- 5.7. **MasterSeal TC 256: 0.4 kg/m<sup>2</sup> - (1 coat required)**
- 5.8. Refer to the individual method statements for the above products coverage rates depending on the specific project requirements.

## 6. WATCHPOINTS:

- 6.1. Do not apply **MasterTop 1240** when the substrate is less than 10°C or when the ambient temperature will fall below 10°C during application or curing, unless heating equipment is available to raise the ambient temperature.
- 6.2. Primer should always be wet for screed application, do not allow to gel.
- 6.3. Do not apply too much primer, it should not be allowed to pool.
- 6.4. Never mix more **MasterTop 1240** than can be laid within the open time of the product.
- 6.5. Do not attempt to remix material once it starts to stiffen, discard the material and mix a fresh unit.

## 7. Health and Safety – Ventilation

### 7.1. BS 8204 – 6: 2001 – Item 10

Certain synthetic resin flooring components may be classified as hazardous under health and safety legislation. Before starting any operations, the manufacturers **Materials Safety Data Sheets** should be studied for all the flooring products to be applied, including resin components, primers, cleaning solvents and all recommendations therein followed. An appropriate risk assessment should be made for the flooring installers and others likely to be affected in adjacent areas.

7.2. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of confined space filter mask to be used.

If these are not sufficient to maintain concentrations of particulate and solvent vapor below the OEL (=Occupational Exposure Limit) suitable respiratory protection must be worn.

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