

THIS METHOD STATEMENT COVERS THE SURFACE PREPARATION, MIXING & APPLICATION OF **MasterEmaco P 2700**, A MULTI-COMPONENT, EPOXY / CEMENT BASED REPAIR MORTAR / FAIRING COAT.

METHOD STATEMENT: MasterEmaco P 2700

1. SUBSTRATE PREPARATION:

- 1.1. All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.
- 1.2. The surface should be prepared by shot blasting, high-pressure water jetting or other suitable mechanical method to create a surface profile similar to CSP 3.
- 1.3. After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester).
- 1.4. The temperature of the substrate should be minimum +10°C and maximum +30°C.
- 1.5. High-pressure wash the prepared surface to remove all traces of dust, micro-fractured concrete and to fully saturate the surface prior to repair.
- 1.6. **The surfaces must be damp but free of standing water.**
- 1.7. Ensure where possible that the temperature of the substrate is uniform during application and hardening. Protect from direct sunlight etc.

2. MIXING:

- 2.1. **MasterEmaco P 2700** is supplied in three separate components, in the correct quantities and ready for use. **MasterEmaco P 2700** is available in 23 kg kits consisting of 1 kg (Part A), 4 kg (Part B) and 18 kg bag (Part C).
- 2.2. Add the contents of Part A into the Part B container and mix with a low speed heavy duty handheld mixer (Collomix Xo6) fitted with a KR mixing head until a homogeneous streak free mix is achieved (1-2 minutes max).
- 2.3. Pour the mixed resins into a large clean mixing bucket (20 L minimum) ensuring all contents of the mixed resins are thoroughly scraped out and whilst still slowly mixing, steadily add the Part C aggregate and continue to mix until a lump free consistency is reached with no signs of dry powder within the mix.

3. APPLICATION:

- 3.1. The prepared surface **MUST** have been saturated with water if it was originally dry and should present a Matt / Damp appearance but with no free surface water.
- 3.2. As a primer / surface levelling / fairing coat the **MasterEmaco P 2700** should be applied by steel trowel at an application thickness of between 0.5mm – 2mm max per layer.
- 3.3. If applied externally, **MasterEmaco P 2700** should be applied during a falling temperature period, pin holes can occur if applied during rising temperatures.

- 3.4. Overcoating time with resin-based coatings, surface moisture to fall below 4%, not earlier than:

Temperature – Time

+20°C ~24 h

+25°C ~18 h

+30°C ~12 h

In case overcoating takes place after an extended period (greater than 7 days), the primed surface will need to be mechanically ground and cleaned before applying the coating system.

4. **COVERAGE:**

As a surface primer: approx. 0.9 to 1.8 kg/m²

As levelling coat: approx. 1.8 to 3.6 kg/m²

>2mm thickness should be maintained to get primer as moisture barrier.

Do not exceed the maximum allowed consumption in one layer.

These consumptions are theoretical and can vary according to the absorption and roughness of the substrate. It is essential to carry out representative trials on site to evaluate the exact consumption.

5. **WORKING TIME:**

- 5.1. Approx. +25°C ambient and substrate temperature ~30 min,
+30°C ambient and substrate temperature ~20 min for 23 kg unit

6. **FINISHING & CLEANING:**

- 6.1. Tools and equipment can be cleaned with water and detergent whilst the materials are still wet. Ensure all wastewater and contaminated cloths etc. are disposed of in a responsible manner.
- 6.2. Once the material has cured it can only be removed from equipment by mechanical means.

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