

THIS METHOD STATEMENT COVERS PREPARATION AND APPLICATION OF A POLYMER MODIFIED MORTAR FOR USE AS A BLOW HOLE FILLER, AND FOR REPAIRS UP TO 3MM THICK.

METHOD STATEMENT: MasterEmaco N 105

1. GENERAL:

- 1.1. The area to be repaired shall be marked on the drawings and on the structure, and subject to revision based on conditions found as breaking out proceeds.
- 1.2. All further repairs will be at the discretion of the Engineer and subject to remeasurement.
- 1.3. All deviations from the original Bill of Quantities or scope of works must be agreed in writing by the Engineer before reinstatement starts.

2. PREPARATION:

- 2.1. Surfaces shall be prepared by high pressure water jetting, mechanical wire brushing or similar method approved by the Engineer.
- 2.2. All laitance, loose or friable concrete and mortar shall be removed.
- 2.3. The prepared surface must be sound, dense and free of all oil, grease, loose and fractured aggregate, curing membrane or other contaminants that could impair adhesion.

3. PRIMING OF CONCRETE:

- 3.1. Concrete surfaces shall be thoroughly soaked to ensure a saturated but surface dry condition at the time of application. Under hot conditions use chilled water to ensure a surface temperature of <40°C at the time of application.

4. TEMPERATURE CONDITIONS:

- 4.1. **MasterEmaco N 105** shall be used when the ambient temperature is between +5°C and 35°C. Chilled water shall be used to prevent mixed material temperatures exceeding 30°C. See 3.1 above re surface temperature.
- 4.2. Substrate temperatures shall not be less than 5°C. In hot weather areas to be repaired must be shaded from direct sunlight both during application and subsequent curing.

5. MIXING:

- 5.1. **MasterEmaco N 105** mortar shall be mixed using a forced action mixer or slow speed drill fitted with a suitable mortar mixing paddle.
- 5.2. If hand mixing is necessary, quantities mixed shall not exceed 10kg of **MasterEmaco N 105**.
- 5.3. The allowable water addition rate should be between 7.0 to 7.5 litres of potable water per 25kg bag of **MasterEmaco N 105**, reducing the amount of water is recommended for trowel or spatula applications.

6. APPLICATION:

- 6.1. The mortar shall be applied by brush, sponge and steel trowel.
- 6.2. The **MasterEmaco N 105** should be firmly applied to the previously prepared substrate ensuring complete filling of voids and blow holes.
- 6.3. The excess shall be scraped off with the edge of a steel trowel and the surface allowed to cure. Keep wet / damp for at least 3 days and out of direct sunlight – provide shade netting if required.
- 6.4. All areas shall then be rubbed back to the original concrete surface, ensuring no loose or powdering residual mortar is evident.

7. CURING:

- 7.1. Good curing is essential. Particular care is required in hot and/or windy conditions. Curing can either be with a single coat of **MasterKure 181** curing membrane, or by covering the work with a properly secured wet hessian and plastic sheet and maintaining this for at least 3 days.

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