

THIS METHOD STATEMENT COVERS THE PREPARATION, MIXING & APPLICATION OF **MasterProtect 2020**, A MULTI COMPONENT SOLVENT FREE MODIFIED EPOXY RESIN REPAIR MORTAR.

METHOD STATEMENT: MasterProtect 2020

1. PREPARATION:

- 1.1. Surfaces must be clean and free of surface moisture.
- 1.2. All dirt, cement laitance and deleterious matter must be removed by thorough wire brushing, grit blasting or scabbling followed by blowing clean with oil-free compressed air.
- 1.3. All surfaces must be primed. Use **MasterEmaco P 102**, a two-pack 100% solids primer and tack coat.
- 1.4. Mix base and reactor components of the **MasterEmaco P 102** primer for 1 minute and apply evenly to the substrate using a stiff brush. The contents of the container must be used within 45 minutes of mixing at 25°C.
- 1.5. Priming shall be carried out approximately 30 - 90 minutes prior to the application of the mortar. This is temperature dependent (high temp = shorter waiting time / lower temp = longer waiting time – primer must be “tacky” when epoxy mortar is applied)
- 1.6. It is essential to apply the mortar on top of the primer whilst the latter is still tacky. If the first priming coat should gel, apply a second priming coat before applying the mortar.
- 1.7. A litre of **MasterEmaco P 102** primer will be sufficient to treat approximately 4-6m² (dependent on porosity and texture of surface).

2. MIXING – MasterProtect 2020:

- 2.1. Thoroughly mix the base with the reactor before adding the aggregate to obtain a trowelable mortar of uniform colour and appearance.
- 2.2. Use a mechanical mixer such as a mixal or similar whenever possible. If hand mixing is necessary, care should be taken to ensure complete and thorough mixing.
- 2.3. The mixed mortar shall be used without delay and applied using a steel trowel.
- 2.4. Press well into the primed surface and compact to ensure positive and permanent adhesion.
- 2.5. Use a steel trowel to finish and bring resin to the surface.
- 2.6. When used in vertical applications, thickness up to 50mm can be applied in one coat. If greater thicknesses are required, further priming between layers is necessary and the backing layer should be crosshatched before cure takes place to provide a mechanical key.
- 2.7. For horizontal applications, thickness up to 100mm can be produced without problems. TO ENSURE ADEQUATE CHEMICAL RESISTANCE A MINIMUM APPLICATION THICKNESS OF **3 MM** IS NECESSARY.

3. NOTE:

- 3.1. **MasterProtect 2020** has been specifically formulated to ensure optimum application properties over a wide range of temperatures. Due to its exceptional pot life, cold joints can generally be avoided. If due to particular circumstances day work joints are necessary, take care to step the mortar and re-prime. Care should also be taken at wall and floor joints and angled fillets should be provided wherever possible.
- 3.2. Should a smooth glossy finish be specified the surface may be over-coated with **MasterTop 1120**.

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