

THIS INSTALLATION GUIDELINES COVERS THE GENERAL PREPARATION AND APPLICATION OF **MasterSeal 513**, CEMENT-BASED OSMOTIC MORTAR / WATERPROOF COATING FOR CONCRETE AND MASONRY.

METHOD STATEMENT: MasterSeal 513

1. PREPARATION:

- 1.1. All surface to be coated shall be clean and sound, free from oil, grease, general curing compounds, release agents, friable matters, laitance, previous coatings, organic growth and any other contaminants that may affect the bond adversely.
- 1.2. Smooth and glossy concrete finish must be abraded for optimum adhesion.
- 1.3. Suitable cleaning and surface treatment method include ultra-high-pressure water jetting, grit blasting and grinding.
- 1.4. Aggressive percussive methods such as scabbling or scarifying are not recommended unless followed by ultra-high-pressure water jetting, grit blasting or grinding.
- 1.5. Arises shall be rounded off and surface protrusions shall be ground down to ensure a levelled substrate.
- 1.6. Use **MasterSeal 513** to fill blowholes and minor undulations if required. Avoid cosmetic repairs as much as possible, especially using cement slurry as it creates a weak layer that impairs adhesion of coating. Repair work should not produce a dusty and flaky finish. Repairs may not be required on minor undulation that would not cause discontinuity on the coating.
- 1.7. Larger repairs can be done using products from **MasterEmaco** range of repair products.
- 1.8. Mask all areas, which may be affected by spillage or overcoating, using tapes and polyethylene sheet.

2. MIXING:

- 2.1. **MasterSeal 513** is a single-component product which requires on-site mixing with potable water. Mix the material on a clean container (min. 20L size), using a slow speed drill, fitted with a mixing paddle.
- 2.2. Pour 5.0L of potable water onto a clean container and gradually add **MasterSeal 513** while mixing.
- 2.3. Pour another 1.5L of potable water and continue mixing until a uniform and lump-free consistency is achieved.
- 2.4. Use the mixed material before it starts to set (approx. 30 mins). The product will have a variable pot life after mixing, depending on the ambient and material temperature.

3. APPLICATION:

- 3.1. Ensure that the substrate is prepared, sound, free of dust and other contaminants to ensure optimum adhesion.
- 3.2. Dampen the substrate with clean water prior to coating application.
- 3.3. Apply **MasterSeal 513** in at least two coats to ensure a pinhole-free application.
- 3.4. Apply the initial coat of **MasterSeal 513** at a minimum rate of 1.7 kg/m² using a stiff brush or trowel. Press the material firmly against the surface to ensure filling of any voids, holes, cracks or cavities and to ensure good coating adhesion.
- 3.5. Allow the initial application to dry (min. 1 hour) prior to application of subsequent coats.
- 3.6. Apply the second coat covering the entire area at a minimum rate of 1.7 kg/m².

4. CURING:

- 4.1. Curing is not required, however, material should be allowed to dry for minimum of 7 days before exposing to service.

STATEMENT OF RESPONSIBILITY

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