

## MASTERCRETE M51

### ACRYLIC POLYMER FOR WATERPROOFING & REPAIRS

#### DESCRIPTION

**MASTERCRETE M51** is a Polymer based material useful as a strengthening agent for concrete/ mortars in repair / waterproofing applications, as well as a protective coating to rebar's and cementitious substrates. It also serves as a bond coat to repair patch work.

#### AREAS OF APPLICATION

- Waterproofing of terrace, toilets, chajja, masonry walls, sloping RCC roofs, etc.
- Repairs to RCC membranes
- Waterproofing mortars / concrete
- In repair mortars / concrete

#### FEATURES & ADVANTAGES

- White turbid liquid can be easily applied by brush.
- Very good as a waterproof coating.
- Useful as a bonding agent between old and new concrete surfaces
- Excellent as a cement modifier
- Repair mortar modified with Mastercrete M51 suitable for repairing of RCC Beams, columns, slabs and other RCC members

#### METHOD OF APPLICATION

- Surface for treatments must be thoroughly cleaned of all laitance, loose material, oils, greases, etc.
- Mechanical means such as wire brushing, shot blasting can be used, and finally vacuum clean of all loose solids and liquids

#### As Bonding Agent:

- Clean the surface thoroughly of its loose concrete, dust, etc., and pre-wet with water adequately.
- Mastercrete M51 and cement in 1:1 proportion by volume and brush apply a single coat over the clean surface. Allow this coat to become tacky (15 to 20 minutes) then apply fresh concrete or mortar. If the bond coat is dried, apply 2nd coat.

#### For Repairs:

- Remove all loose or cracked concrete till healthy surface is encountered. Clean reinforcement steel if exposed by mechanical means.
- Moisten the surface with clean water and allow excess surface water to evaporate

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- Mastercrete M51 with neat cement in 1:1 proportion by volume. Brush-apply a single coat immediately over the cementitious surface.
- Prepare repair mortar by adding 20% Mastercrete M51 in 1:3 cement mortar or as specified proportions of the mortar. Use mechanical mixer for better consistency. Apply this mortar when the bond coat is tacky at a thickness up to 10-15 mm. Built up the required thickness in subsequent layers of 10-15 mm each over the bond coat. Final layer can be finished with trowel to get smooth finish

#### For Waterproofing:

- Prepare the surface as mentioned above earlier to receive the waterproofing coating. Mix Mastercrete M51 and cement in 1:2 proportion by volume. Apply 1st coat when the surface is in touch to dry condition and allow it to dry for 4 to 5 hours. Apply 2nd coat and allow it to air cure for at least 72 hours. Over application of mortar screed to a thickness of 15-20 mm must be done to protect the coating from getting damaged. Plaster over vertical surfaces shall be done when the second coat is tacky to have better bonding with the surface.
- Prior to the waterproofing coat all surfaces cracks up to 5mm should be filled with paintex-4. The cracks more than 5mm and separation gaps must be filled with polysulphide sealant.

#### TECHNICAL PARAMETERS

- Total solid content : 24 ± 2 %
- Specific gravity : 1.01
- PH : 8 – 9
- Coverage: 20-22 sq.ft/kg for 2 coats. (Master Crete M51 + cement in the Proportion 1:2)
- Pot life : 30-45 minutes, when mixed with Cement at 30°C

#### PRECAUTIONS & LIMITATIONS

- Consume mixed material within 45 minutes
- Moisten the surface adequately before coating application
- Dilution of Mastercrete M51 is strictly not recommended.
- Do not apply coating over loose or cracked plaster surface
- Not to be used for cathodic treatments to rebar
- Do not exceed an addition of 20 % of Mastercrete M51 for modifying concrete / Mortars