



MASTER CHEMICALS TECHNOLOGY

MC- MASTER WELD

Multi Purpose Adhesive & Bonding Agent

Description :

MC- Master Weld is a heavy duty resinous which dries to a premanly flexible film

Uses :

MC- Master Weld is used for:

- ◆ Bonding of new concrete to old concrete .
- ◆ Powerfully bonds interior or exterior floor toppings, cement render, stucco, terrazo ceramic tiles etc. to almost any firm clean surface such as:
 - Concrete
 - Brick concrete block
 - Slate
 - Metal
 - Terracotta
 - Marble, etc.
- ◆ Added to the cement mortar to modify its mechanical properties, enables this cement mortar topping to be successfully applied, such mortar is also excellent for patching and leveling concrete floors, steps and repair of fine cracks.

Advantages:

- ◆ Heavy duty, non toxic and non flammable material
- ◆ High tensile and shear bond strengths are developed between new finishes and substrates once work has dried out .
- ◆ Easy to use .
- ◆ Can be applied over coated surfaces without removing the coat.

Technical Data :

Appearance	: Milky white liquid
Specific gravity at 25 °C	: 1.05 g / cm ³
Consumption rate	: As bonding agent, 4 - 7 m ² /L (depends on the porosity and texture of the surface and method of application)
	: As an additive to the mortar 2 kg / 50 kg of cement (added to the mixing water).
Shelf Life	: 12 months
Packaging	: 15 , 125 kg drums.

Method Statement :

Surface preparation:

Structural surfaces to receive **MC- Master Weld** must be sound and perfectly clean. Remove all laitance , dust dirt , oil , grease , wax or polish , residual form oil, loose or alky paint, rust, efflorescence and other contaminants. Walls painted with modern oil, resin-emulsion or cement-based paints can be rendered over without having to chip off paint , but only if paint is perfectly sound and tightly bonded, and any chalky film is removed, glossy painted surfaces should be dulled with abrasive paper. Apply trail pats of render and test after few days for satisfactory adhesion before proceeding . May be applied over damp or dry concrete or masonry surfaces—remove any water puddles first .

Method of application:

1) As a bonding Agent

Gently stir container before use, then evenly apply undiluted to the substrate surface, like a coat of paint. Use a brush, roller or heavy-duty industrial spray equipment to give a continuous film over the entire surface.

Do not apply at temperature below 10°C. On floors, do not allow **MC-Master Weld** to collect in pools or hollows-brush excess out of such depressions and spread over adjacent areas to dry. Very porous surface may be lightly dampened with water first, particularly in warm conditions, to make brush or roller application, easier, topping render etc. may be applied when the film has first become touch-dry (usually) 30-60 minutes. (*depending on temperature*).

Slump of new concrete or toppings (min. 15 mm. thickness) should not exceed 80 mm.

sloppy mixes are liable to flood the **MC- Master Weld** film .

Renderings should be at least 10 mm. thick. per coat, with 24 hours minimum allowed between coats. Provide expansion or shrinkage. Control joints where appropriate.

2) Thin floor topping, patching etc.

Topping able to accept traffic wear and most service conditions may be successfully installed less than 15 mm. thick., down to featheredge, using 1 part cement : 2 parts clean sand (*particle-size grading suited to thickness of proposed work*) wet up to plastic trowelling consistency with a solution made by diluting 1 volume **MC-Master Weld** in 3 volumes water. After finishing allow to air cure, but protect from drying wind, draughts or hot sun

3) Repair of fine cracks

Dilute **MC-Master Weld** with water 1 : 1 and stir in portland cement (neat or blended with equal volume clean fine sand) to produce a stiff plastic (putty) consistency, force into cleaned-out cracks or small gaps etc., smooth off with trowel or putty knife moistened with water, and allow to set overnight.

For more details contact **Master Chemicals Technology** technical department

Or visit our website www.mc.com.eg

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