



MASTER CHEMICALS TECHNOLOGY

MC- Epo Bond

Epoxy Bonding Agent

Description:

MC- Epo Bond is a two components epoxy bonding agent , structural adhesive for bonding new concrete to old concrete .

M C - Epo Bond meets the requirements of ASTM C 881-78 ; Grade 2 , class B+C .

Uses:

MC- Epo Bond is used as:

- ◆ Positive Bonding of new concrete to old eroded or spelled concrete surface.
- ◆ Remedial maintenance, water proofing and restoration of all concrete surfaces

Advantages:

- ◆ Long pot life.
- ◆ High bond strength with concrete.
- ◆ Can be applied by brush, roller or spray.
- ◆ Can be applied to both vertical and horizontal surfaces.
- ◆ Low cost .
- ◆ Easy application .
- ◆ Waterproof .

Technical Data :

Color	: clear , white, gray and black
Density at 25° C	: clear white & Gray black 1.07 1.6 1.36 g/cm ³
Pot life at 25°C	: clear 35 min ; white & Gray 1.5 hour ; black 2 hours.
Mixing ratio	: clear 1:2 ; white & Gray 1:5 ; black 0.7 : 5 (curing : Base)
Initial setting time at 25° C	: 4 hours
Final cure	: 5-7 days at 30° C
Coverage	: 2-5 m ² /Kg (depending on the surface)
Compressive strength (28days)	: 600 Kg / cm ²
Tensile strength (14 days)	: 280 Kg / cm ²
Flexural strength (14 days)	: 300 Kg / cm ²
Water absorption	: < 1 %
Bonding strength (7 days)	: 28 Kg / cm ² (to concrete)
Effective shrinkage	: pass
Shelf life	: 12 months
Packaging	: clear 6 Kg (4+2) , white, Gray 6 Kg (5+1) and black 5.7 Kg (5+0.70)

Method Statement:

Surface preparation

Surface of application should be sound and clean . (Use conventional cleaning methods such as acid etching or mechanical scarification) Surface must be free of standing water and dry .

Mixing

The two components should be mixed thoroughly according to the mixing ratio .

Method of application

- ◆ **MC- Epo Bond** is applied by brush or spray .
- ◆ Allow 15 – 30 minutes of the applying **MC- Epo Bond** which become tacky
- ◆ Fresh concrete should be cast within two hours after coating at 30° C

Cleaning

Cleaning tools & equipment by using an epoxy thinner.

Safety precautions

- ◆ Take precautions to prevent material entering the eyes
- ◆ Take precaution to avoid skin contact.

*For more details contact **Master Chemicals Technology** technical Department
Or visit our website www.mc.com.eg*

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