MASTER CHEMICALS TECHNOLOGY

MC- EPO Floor-T50

Heavy Duty – Epoxy Mortar for Concrete Floors

Description:

MC-Epo Floor – T 50 is a synthetic compound consisting of a two parts epoxy system (resin & hardener) and a selected mix of fillers.
MC-Epo Floor – T 50 is solvent free and non toxic system to provide an excellent protection against wear, impact and chemical corrosion of acids alkalis, solvents, oils, salts and saline solution.

Field of application:

MC-Epo Floor – T 50 is suitable for:

- Oil refineries
- Paint factories
- Chemical and pharmaceutical plants
- Battery rooms
- Power plants
- Laboratories
- Paper mills
- Food industries
- Plating plants….. etc.

Advantages:

- Excellent abrasion and impact resistance
- Excellent chemical resistance
- Hygienic
- Used for construction of new concrete floors and restoration of old floors subjected to corrosive atmosphere and heavy conditions.
- Easily laid, can be laid directly to concrete.
- Durable, capable of withstanding the corrosive effect of most industrial spillage.
- Can be applied on horizontal, vertical or inclined surfaces
- Super finishing, Designed for jointless, seamless and totally no dusting finished floor, which can be cleaned to high standards of hygienic requirements.
- Achieves extremely high compressive strength and flexural strength.

Rate Of Use :

Epoxy floor primer	(M C - Epo Prime)	: 200 – 300 g / m^2
Epoxy floor mortar	(M C - Epo Floor T 50)	: 2.00-2.25 kg / m^2/ mm thickness
Epoxy floor top coat	(M C - Epo Paint)	: 200 – 300 g / m^2

Technical data:

Color	: A wide range of colors are available
Pot life (at 20 – 25 ^{0}C)	: about 2 hours
Surface dry (at 20 – 25 ^{0}C)	: about 4 hours
Complete curing time (at 20 – 25 ^{0}C)	: about 7 days
Solvent content	: non

Density (at 25 ^{0}C) : 2 g /cm^3
Compressive strength, 7 days : 680 kg / cm^2
Flexural strength : 300 kg / cm^2

Chemical resistant

Material		Resistance range
Sulfuric acid	25%	Excellent
Hydrochloric acid	20%	Excellent
Phosphoric acid	40%	Excellent
Citric acid	10%	Excellent
Oxalic acid	10%	Excellent
Acetic acid	10%	Excellent
Sodium hydroxyde	20%	Excellent
Ammonia	15%	Excellent
Mineral spirits and oils		Excellent
Acetone		Fair
Xylene		Fair
Salt solutions		Excellent

Method Statement

Substrate preparation:
Concrete floors must be clean and dry. Dust, oil, grease and other impurities and faulty sections must be removed.
Honeycombs and holes etc. should be patched prior to the application of **MC-Epo Floor T50**.

Priming:
Priming with **MC- Epo Prime** ensures perfect bonding to the substrate.
Mix the two components of MC-Epo Prime (Resin & hardener) thoroughly and apply the primer by means of roller, brush or squeeze enough time is allowed for the primer to become tacky before the application of **MC-Epo Floor**.

***Mixing*:**
Thoroughly mix the component of **MC-Epo Floor T50** with a low speed mixer for at least 3-5 minutes until a homogeneous, lump free compound is obtained.

***Application*:**
Spread the mixed compound uniformly onto the primed surface to a thickness approx. twice the required. Compact by hand or power float. Set levels at the perimeter and use a striking board to remove excess. To obtain a tight, smooth surface the mortar should be finished using steel trowel.

Surface finish
To obtain a very smooth, glossy finish and high chemical resistance it is recommended that the epoxy mortar surface should be sealed with a coat of **Epo Floor** top coat (**MC-Epo paint**) with the color required.

***Curing*:**
Open to light traffic after 24 hrs.
Open to moderate traffic after 3 days.
Open to heavy traffic after 7 days.

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

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