

PRODUCT FAMILY

Flooring & Floor  
Hardeners

MCT

# MC-Epo Floor T 50

## Heavy-Duty Epoxy Mortar for Concrete Floors

Solvent-free epoxy mortar made from resin, hardener and selected fillers for protection against abrasion, impact and chemical attack.

|                                                                      |                                                 |                                               |                                      |
|----------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------------------------|
| Mortar consumption<br><b>2.00-2.25 kg/m<sup>2</sup><br/>per 1 mm</b> | Pot life<br><b>About 2 hours at<br/>20-25°C</b> | Density @ 25°C<br><b>2.0 g/cm<sup>3</sup></b> | Complete cure<br><b>About 7 days</b> |
|----------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------------------------|

## Description

MC-Epo Floor T 50 is a two-component epoxy mortar system - resin and hardener - combined with selected fillers. The source describes it as solvent-free and suitable for high protection against abrasion, impact and chemical corrosion.

## Where to use

- Oil refineries, workshops, garages and ramps.
- Chemical and pharmaceutical plants, battery rooms and power plants.
- Laboratories, laundries and paper mills.
- Food industries, mills, bakeries and slaughterhouses.
- Industrial production halls, warehouses and plating plants.

MCT TECHNICAL DATA

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### Advantages

- Excellent abrasion and impact resistance.
- Excellent chemical resistance.
- Suitable for environments requiring high hygiene standards.
- Used for new concrete floors and restoration of old floors exposed to corrosive atmospheres and severe service.
- Can be applied on horizontal, vertical or inclined surfaces.
- Provides a seamless, dust-free floor that can be cleaned to a high standard.
- High compressive and flexural strength.

### Application rates

|                          |                                      |
|--------------------------|--------------------------------------|
| MC-Epo Prime T 50 primer | 200-300 g/m <sup>2</sup>             |
| MC-Epo Floor T 50 mortar | 2.00-2.25 kg/m <sup>2</sup> per 1 mm |
| MC-Epo Paint top coat    | 200-300 g/m <sup>2</sup>             |

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### Technical data

|                               |                                      |
|-------------------------------|--------------------------------------|
| Colour                        | Available in a wide range of colours |
| Pot life @ 20-25°C            | About 2 hours                        |
| Foot traffic                  | After about 24 hours                 |
| Light traffic                 | After 2-3 days                       |
| Heavy traffic                 | After 7 days                         |
| Complete cure @ 20-25°C       | About 7 days                         |
| Solvent content               | None                                 |
| Density @ 25°C                | 2.0 g/cm <sup>3</sup>                |
| Compressive strength - 7 days | 680 kg/cm <sup>2</sup>               |
| Flexural strength             | 300 kg/cm <sup>2</sup>               |

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## Chemical resistance

| Material                | Concentration | Resistance |
|-------------------------|---------------|------------|
| 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 hydroxide        | 20%           | Excellent  |
| Ammonia                 | 15%           | Excellent  |
| Solvents & mineral oils | -             | Excellent  |
| Acetone                 | -             | Acceptable |
| Xylene                  | -             | Acceptable |
| Salt solutions          | -             | Excellent  |

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## Application procedure

- Surface preparation: the substrate must be clean, dry and free from dust, oil, grease and defects. Repair honeycombs and holes before application.
- Priming: mix MC-Epo Prime T 50 components thoroughly and apply by roller, brush or a suitable tool. Allow the primer to become tacky.
- Mixing: mix MC-Epo Floor T 50 components with a low-speed mixer for 3-5 minutes until homogeneous.
- Application: spread the mortar at approximately twice the required thickness, compact manually or mechanically, strike off excess, then finish with a steel trowel for a dense, smooth surface.
- For a very smooth, glossy finish and increased chemical resistance, the source recommends sealing the mortar with MC-Epo Paint in the required colour.
- Service: foot traffic after about 24 hours, moderate traffic after about 3 days and heavy traffic after 7 days.

