

# MasterEmaco<sup>®</sup> T 2040

## Rapid setting repair mortar for industrial flooring

### MATERIAL DESCRIPTION

**MasterEmaco T 2040** is a fast setting three-component screedable patching mortar for floors utilising natural aggregate and binder based on the APS polymer technology. It offers excellent resistance against impact, and abrasion as well as chemical attack.

**MasterEmaco T 2040** is only available in a rapid version.

Type	Temperature range
MasterEmaco T 2040 - <i>Rapid</i>	-25°C to + 5°C

APS technology is a unique polymer technology researched and developed by Master Builders Solutions over the past 10 years and protected by international patents.

### AREAS OF APPLICATION

Fast repairs in:

- food and beverage industry
- cold stores
- freezers
- rapid repairs to concrete slabs
- supermarkets
- airport runways and taxi ways
- roadways
- joint nosings

### CHARACTERISTICS AND BENEFITS

- **Suitable for freezer repairs**- applicable at freezing temperatures (-25°C).
- **No priming or curing** – fast preparation and installation and return to service.
- **Non tainting** – able to be applied in a working freezer.
- **Fast setting** – fast return to service.
- **Bonds to damp surfaces** – suitable for freezer repairs.
- **Trafficable** - excellent durability in high traffic areas.

### PROPERTIES

Chemical base	Acrylate polymer
Colour	Grey
Layer thickness	10-30mm
Mixed density	2.3Kg/m <sup>2</sup>
Working time	30 minutes
Application temperature (ambient and substrate)	-25 to +5°C
Compressive strength @ -20°C	
24 hours	15MPa
7 days	95MPa
Flexural strength @-20°C	
24 hours	5MPa
7 days	25MPa
Modulus of elasticity EN 13412 @-20°C	
7 days	35kN/mm <sup>2</sup>
Temperature resistance	-30°C- 80°C
Impact resistance 7 Days (DIN 53453)	1.2-1.4 KJ/m <sup>2</sup>
Abrasion Resistance 7 days (ASTM D4060/90)	115mg /1000 rev (sanded)

### APPLICATION

#### Substrate Condition

All surfaces to be coated should be free from all oils, grease, dirt, dust, previous finishes and other contaminants, with a CSP 3 or greater profile similar to medium sandpaper. Mechanical preparatory techniques are more controllable and are preferred.

#### Pre-conditioning

Pre-condition **MasterEmaco T 2040** to temperature expected during application by storing in the freezer for at least 24 hours prior to application not allowing the part A and B freeze, to achieve optimum work time. As temperature drops under 0°C, cure period will increase. Material will stiffen and be difficult to work in very cold freezers.

#### Mixing

Mix Part A with Part B (full kits only). Slowly add Part C and continue to mix until uniform. Ensure the final mix is lump free and even in colour. All mixing should be done using a slow speed drill (maximum rpm 600) and a spiral-mixing paddle. Ensure all containers are completely empty before disposal. Use full kits only. When the material is to be applied at thicknesses greater than 20mm, the addition of extra filler is recommended.

# MasterEmaco® T 2040

## Rapid setting repair mortar for industrial flooring

The addition of filler should be as per next table and added slowly to the mix after the addition of the Part C.

Thickness	Part A	Part B	Part C	2-4mm	4-8mm	8-16mm
5-20mm	2.4kg	0.4kg	22.5kg			
20-50mm	2.4kg	0.4kg	22.5kg	13kg		
50-100mm	2.4kg	0.4kg	22.5kg	6.5kg	6.5kg	
100-400mm	2.4kg	0.4kg	22.5kg	6.5kg		6.5kg

Aggregate should be clean kiln dried

### Application

Apply the mortar by trowel to the prepared surface at the required thickness. The use of screed rails may be of assistance. In instances of repair the edge of the repair should be square cut to a minimum of 10 mm to avoid feather edging. Compact and form as required. Do not over trowel.

Prime with a standard kit of **MasterEmaco T 2040** when using aggregate extension, wet on wet.

### POT LIFE

MasterEmaco T 2040 rapid: at 0°C 30 mins

### CURING

Cure time will vary, dependent on the ambient temperature. **MasterEmaco T 2040** should be allowed to cure for 4- 6 hours protected from traffic and spillage. The final surface may, for a 24 hour period, exhibit a degree of residual 'tack'. This can be eliminated by broadcasting with clear dry sand after application and removing the sand before putting the area into service.

### DISCLAIMER

MasterEmaco-T920CI-ANZ-V11-1220

#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia Pty Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

#### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a

**MB Solutions Australia Pty Ltd**  
 ABN 69 634 934 419  
 11 Stanton Road  
 Seven Hills NSW 2147  
  
**Freecall: 1300 227 300**  
[www.master-builders-solutions.com/en-au](http://www.master-builders-solutions.com/en-au)

**MB Solutions New Zealand Ltd**  
 45C William Pickering Drive  
 Albany, Auckland  
 New Zealand  
  
**Freecall: 0800 334 877**

**Emergency Advice:**  
 1300 954 583 within Australia (24hr)  
 0800 001 607 within New Zealand

### CLEANING

Uncured material may be removed using clean fresh water and detergent. Cured material can only be removed mechanically.

### ESTIMATING DATA

2.35kg/m<sup>2</sup> @ 1mm thickness.

MasterEmaco T 2040				
L	Thickness in mm /m <sup>2</sup>	m <sup>3</sup>	kits /m <sup>3</sup>	m <sup>2</sup> /mm thickness
10.76	10.76mm	(0.01076)	93	10.76 m <sup>2</sup>

### PACKAGING

Part A	2.4kg
Part B	0.4kg
Part C	22.5kg
Yield	10.76L

### SHELF LIFE

**MasterEmaco T 2040** may be stored in original containers for 9 months in controlled environments.

### PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.