

# MasterTop<sup>®</sup> 1240

## Epoxy based high strength mortar Flooring System

### MATERIAL DESCRIPTION

**MasterTop 1240** is a coloured industrial flooring mortar screed based on an advanced solvent-free epoxy resin system and selected graded aggregates. The mixed mortar is screedable and can be laid to provide a joint-less topping. Where the situation demands, the aggregate content can be reduced to yield a semi self-smoothing and self-sealing mortar.

### RECOMMENDED USES

Where a high level of resistance to abrasion is required. It is ideal for:

- chemical and pharmaceutical industries
- food and beverage industry
- areas subjected to heavy wear and tear
- production and packaging areas
- wet process areas
- manufacturing and storage areas
- laboratories

### FEATURES AND BENEFITS

- **Chemical, abrasion and impact resistant** - Withstands chemical and mechanical attack. Lower maintenance cost.
- **Non-slip** - Safe working areas.
- **Wide colour range** - Attractive floors. Pleasant working environment.

### PROPERTIES

(7 days cure @ 20°C using A4,B4,X1 and F1a)	
Compressive (DIN 1164)	65 MPa
Flexural strength (DIN 1048)	35 MPa
Bond strength (DIN ISO 4624)	> 1.5 MPa
Abrasion resistance (DIN ISO 53154)	98 mg
Modulus of elasticity (DIN 1048)	9000 MPa
Coeff. of linear expansion (DIN 53752)	8 x 10 <sup>-5</sup> K <sup>-1</sup>
Service Temperature :	-20oC to 60oC
Application Temperature :	Minimum 10oC-35oC

### a. Components

	Supply form	Colour	Density
MasterTop 1200 Part A	liquid	Amber	1.1kg/L
MasterTop 1200 Part B	liquid	Amber	1.0kg/L
MasterTop X1 colour	Paste	Various	2.0kg/L
Filler F15	powder	white	2.6kg/L

### b. Mixed systems

Components Mix ratio by weight			
Primer A:B	5.4:3		
Body Coat A:B:X1:F15	5.4:3:0.6:3 to 4 x 22.7		
Sealer A4:B4:X1:F16	5.4:3:0.6:4.5 to 6.5		
MasterTop 1705	See datasheet		
Pot-life (minutes)	100 C	200 C	300 C
Primer (A/B)	90	45	20
Body Coat	100	90	45
Sealer (A/B/X1/F16)	90	45	20
Curing time (days)			
Primer (A/B)	5	2	1
Body Coat	7	3	2

### APPLICATION

#### Surface Preparation

The compressive strength of the substrate shall not be less than 30 MPa. The concrete slab in contact with the ground must have a vapour barrier installed in compliance with DIN 18195 or equivalent. The moisture content of the substrate shall not be higher than 8% throughout. The temperature of the substrate must be at least 3oC above the current dew point temperature. Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membranes and other contaminants must be removed from the surface by shot blasting, scarifying or grit-blasting followed by vacuum cleaning.

After pre-treatment of the substrate, the bond strength of the substrate must be at least 1.5 MPa. For filling up surface irregularities such as blowholes, cracks, honeycombs, use a MasterEmaco repair mortar.

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### PRIMER

#### Mixing

Use a low electric drill fitted with a paint mixer or a wing type paddle. Mix one unit of MasterTop 1200 part A with MasterTop 1200 part B and mix for at least 3 minutes or until the mix is uniform in colour and free of streaks.

#### Placing

Depending on the substrate condition, apply 0.2 to 0.3 kg/m<sup>2</sup> of the primer, using a roller or squeegee.

**MasterTop X1** may be added to help visually in locating areas where primers are not applied properly.

### BODY COAT

#### Mixing

Mix MasterTop 1200 part A with MasterTop 1200 part B and **MasterTop X1** in a forced action mixer and mix for at least 3 minutes until the mix is uniform and free of streaks. Continue to mix slowly adding 3 to 4 bags of F15. Mix for a further 3 minutes until a uniform mass and colour is obtained.

#### Placing

The Body Coat is applied wet on wet onto the still tacky primer using a normal steel / wooden trowel. The mortar is screeded approximately 2 mm higher than the final compacted thickness using a metal screed-bar and thickness templates. For larger areas a screed box is recommended. Compacting takes place with a steel/PVC trowel or a power float for large areas.

### SEALER

#### Mixing

Use a low speed electric drill fitted with a paint mixer or a wing type paddle. Mix **MasterTop 1200** part A with one pack of **MasterTop X1** until the colour is uniform then add **MasterTop 1200** part B, add 4.5 to 6.5 kg of F16 and mix for at least 3 minutes or until the mix is uniform and free of streaks.

### Placing

Immediately after mixing, pour the material onto the BodyCoat. Spread the mixed material using a squeegee. The amount of material applied determines the smoothness of the finish. Back roll with short hair mohair roller. Depending on the compactness of the mortar, a second sealer coat may be required in order to obtain a completely sealed surface. This is of particular importance for floors that are continuously wet.

### TOP COAT

Following application of the **MasterTop 1240**, protect coated area for at least 24 hours after laying from spillage, dust, insects, small animals, traffic, rain, moisture, etc.

### ESTIMATING DATA

For thickness of 4 to 8 mm System

Product	kg/m <sup>2</sup>	Thickness mm
Primer A4:B4	0.2–0.3	0.1–0.2
Body Coat A:B:X1:F15	9 to 18	4–8
Sealer A4:B4:X1:F16	0.4–0.6	0.2–0.3
Top Coat MasterTop 1705	0.4–0.6	See data sheet

### PACKAGING

<b>MasterTop 1200</b> part A	5.4 kg/pail
<b>MasterTop 1200</b> Part B	3.0 kg/can
<b>MasterTop X1</b> colour	0.6 kg/pack
<b>MasterTop</b> Filler F152	2.7 kg/bag
<b>MasterTop</b> Filler F162	5.0 kg/bag.

### SHELF LIFE

**MasterTop 1200** has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

### PRECAUTIONS

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

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