

# MasterTop<sup>®</sup> 1240T

## Multi-purpose epoxy screed and mortar

### DESCRIPTION

**MasterTop 1240T** is a multi-component epoxy mortar system applied in thicknesses of 5mm and above, designed to provide a durable purpose system for floor screeding, coving and floor repair.

When used as a floor screed, **MasterTop 1240T** may be applied by a standard hand trowel or through a conventional floor screed box and may be finished by a power trowel.

### TYPICAL APPLICATIONS

**MasterTop 1240T** floors have good mechanical properties and offer resistance to abrasion and wear in areas subject to heavy traffic.

**MasterTop 1240T** has good general chemical resistance, but as in all corrosive situations a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data, to ensure product suitability.

**MasterTop 1240T** may be used for general repairs in floors subject to heavy, abrasive traffic or for joint arris repairs and reinforcement of heavily trafficked joints or as a coving medium.

**MasterTop 1240T** is non-tainting and is suitable for application where foodstuffs are processed and stored.

**MasterTop 1240T** may be applied in the following industries:

- Logistics bays and ramps
- Engineering workshops
- Electrical switchgear rooms
- Logistics areas
- Metal processing and engineering

NB This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact Master Builders Solutions Construction Chemicals LLC.

### ADVANTAGES

- High mechanical strength
- Impact and abrasion resistant
- Easy application characteristics
- Suitable for power trowelling
- Multi-purpose product
- Solvent-free
- Excellent chemical resistance

### PACKAGING

**MasterTop 1240T** (Unpigmented) is supplied as a three component 25 kg pack.

**MasterTop 1240T** (Pigmented) is supplied as a four component 25.4 kg pack (including colour pack).

**MasterTop P 1240/50** is supplied in 2.8 kg units.

### TYPICAL PROPERTIES\*

Laboratory tests carried out at 25°C	
Pot life	40 min
Initial cure	14 h
Compressive strength (ASTM C579-93) @ 7 days	>60 N/mm <sup>2</sup>
Flexural strength (ASTM C580-96)	>15 N/mm <sup>2</sup>
Tensile strength (ASTM C307)	>7 N/mm <sup>2</sup>
Density of mixed material	2.1 kg/L
Abrasion resistance (ASTM C501-84)	0.50 mg/cycle
Bond Strength	Greater than the cohesive strength of concrete
Impact Test ISO 6272 : 93	No signs of crack or de-bonding

**MasterTop 1240T** overcoated with **MasterTop 1120 / MasterTop 1110 / MasterTop 1210 / MasterTop 1205 / MasterSeal TC 256 / MasterSeal TC 257 MasterSeal TC 258**.

Refer to the method statement for coverages and application details.

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## APPLICATION GUIDELINES

### SURFACE PREPARATION

**MasterTop 1240T** must be applied to a clean, dry substrate free from dust, dirt, oil, grease and other contaminants. A clean well prepared surface will ensure adhesion between substrate and overlay.

### NEW CONSTRUCTION

Floors to be coated or overlaid should be at least 28 days old unless water reducing admixtures have been incorporated. Consult Master Builders Solutions Technical Services Department for advice.

The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting or scarifying.

### EXISTING CONCRETE

All contamination must be removed and a sound, clean substrate exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum.

In areas of deep penetrating contamination by oils, greases and fats, hot compressed air, followed by impregnation with a low viscosity sealer / primer is the recommended treatment.

Uneven concrete should be levelled to produce a roughened flat surface. Where repairs are required, they can be carried out using **MasterTop 1240T** filled out with additional aggregate or, if time allows, a suitable product from the **MasterEmaco** range.

Expansion, control and isolation joints in concrete substrates should be carried through **MasterTop 1240T** floors and filled with a suitable sealant from the Master Builders Solutions range.

Prior to application **MasterTop 1240T** should be stored under cover in air-conditioning and protected from extremes of temperature which may cause inconsistent workability, finish and cure times of the mixed material.

### PRIMING

Prime using **MasterTop P 1240/50**. Mix the two components using a slow speed drill with a suitable paddle. Mix until uniform consistency is obtained. The components are preweighed and should not be split or divided.

Apply by brush or roller and work well into the surface. Apply according to the stated coverage. Allow to stand for 20 minutes before applying the **MasterTop 1240T** to check for absorption. If the surface becomes matt, showing absorption, re-prime the surface. Apply the **MasterTop 1240T** whilst the primed surface is still tacky. If the primer hardens reprime within 24 hours.

### SEALING

When the floor is subjected to chemical or oil spillage or when hygiene is important, the finished surface must be sealed. Consult Master Builders Solutions Technical Services Department for further details.

Good curing is essential for resin-based materials to ensure specified performance. A minimum temperature of 10°C should be maintained during the curing period by the use of additional heating, if necessary.

### MIXING

Mixing should be carried out using a forced action mixer such as a Creteangle or Mixal Mixer.

Add the base, reactor and colour pack to the mixer completely emptying the contents of the containers. Mix for 1 minute until a uniform colour is achieved. Slowly add the aggregate component and mix for a further 3 minutes until a uniform colour and consistency is achieved.

Mixing times should be varied according to temperature but typically 4 minutes in total is sufficient. It is important to maintain constant mixing times throughout the contract, to ensure consistent colour and to avoid introducing excessive air into the system.

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**MasterTop 1240T** systems are supplied in preweighed packs which should not be split or divided. It is important to use complete packs.

During application in cold weather, correct conditioning is essential, application should be halted if the ambient or substrate temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperatures. When temperatures exceed 35°C, working times will be reduced significantly.

## CLEANING

Remove uncured **MasterTop 1240T** using a suitable thinner (Xylene / MEK / Acetone).

## COVERAGE / YIELD

### Primer:

**MasterTop P 1240/50** - Minimum 0.2 kg/m<sup>2</sup>

### Epoxy Screed:

- A. **MasterTop 1240T** (5mm)  
 (including **MasterTop Color Pack**)  
 A 25.4 kg unit yields approx. 12.1 L  
 Approx. 10.5 kg/m<sup>2</sup> (5 L/m<sup>2</sup>)  
 Approx. 2.41 m<sup>2</sup> / 25.4 kg unit
- B. **MasterTop 1240T** (5mm)  
 (Neutral)  
 A 25 kg unit yields approx. 11.9 L  
 Approx. 10.5 kg/m<sup>2</sup> (5 L/m<sup>2</sup>)  
 Approx. 2.38 m<sup>2</sup> / 25 kg unit

## STORAGE AND SHELF LIFE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction and protect from extremes of temperatures.

The shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult Master Builders Solutions Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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.

## NOTE

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

