

MasterTop® 1240

Multi component epoxy screed and repair compound

DESCRIPTION

MasterTop 1240 is a multi component epoxy screed system designed to provide durable and abrasion resistant protection for concrete floors. Applied by trowel in thicknesses of 5mm and above, **MasterTop 1240** may also be suitable for use as a coving or repair medium.

TYPICAL APPLICATIONS

MasterTop 1240 floors have excellent mechanical properties and offer superior abrasion and wear characteristics for areas subjected to heavy traffic.

MasterTop 1240 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 1240 may be used for general repairs in floors subject to heavy, abrasive traffic or for joint arris repairs and reinforcement of heavily trafficked joints. **MasterTop 1240** is non-tainting and is suitable for application where foodstuffs are processed and stored.

In continuously wet areas, **MasterTop 1240** floors offer improved safety by providing a slip resistant finish, through the application of a Seal Coat from the **MasterTop** range, incorporating anti-slip aggregate.

MasterTop 1240 may be applied in the following industries

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.

- Loading bays
- Workshops
- Distribution centres
- Laydown areas
- Production halls.
- Power installations
- Metal processing and engineering

ADVANTAGES

- High mechanical strength
- Impact and abrasion resistant
- Slip resistant
- Non tainting
- Excellent chemical resistance

PACKAGING

MasterTop 1240 (pigmented) is supplied as a multi component, 28.06 kg pack (including colour pack).

MasterTop 1240 Neutral is supplied as a multi-component 27.66 kg pack.

MasterTop P 1240 is supplied in 2.8 kg units.

TYPICAL PROPERTIES*

	25°C	40°C
Pot Life	40 min	20 min
Cure Time	14 h	10 h
Compressive strength (ASTM C579-2001) 7 days	81 N/mm ²	84 N/mm ²
Flexural strength (BS 6319 Part 3)	>30 N/mm ²	
Tensile strength (BS 6319 Part 7)	>15 N/mm ²	
Density of mixed material	2.14 kg/L	
Bond strength	>2.5 N/mm ²	

MasterTop 1240 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.

APPLICATION GUIDELINES

SURFACE PREPARATION

MasterTop 1240 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.

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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 1240** 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 1240** floors and filled with a suitable sealant from the Master Builders Solutions range.

Prior to application **MasterTop 1240** 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**. 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 1240** to check for absorption. If the surface becomes matt, showing absorption, re-prime the surface. Apply the **MasterTop 1240** 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.

MasterTop 1240 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.

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CLEANING

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

COVERAGE / YIELD

Primer:

MasterTop P 1240 / 1250 - Minimum 0.2 kg/m²

Epoxy Screed:

A. **MasterTop 1240** (5mm)
 (including **MasterTop** **Color** **Pack**)
 A 28.06 kg unit yields approx. 13.1 L
 Approx. 10.70 kg/m² (5 L/m²)
 Approx. 2.62 m² / 28.06 kg unit

B. **MasterTop 1240** (5mm)
 (Neutral)
 A 27.66 kg unit yields approx. 12.9 L
 Approx. 10.70 kg/m² (5 L/m²)
 Approx. 2.59 m² / 27.66 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 Master Builders Solutions packaging. For specific storage advice consult 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.

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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.

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