

MasterTop® 1240

Multi-component epoxy screed and repair compound

DESCRIPTION OF PRODUCT

MasterTop 1240 is a multi-component epoxy screed system designed to provide continuous protection for concrete floors in medium to heavy-duty situations. Applied by trowel in a thickness of 5mm and above, **MasterTop 1240** is suitable for use as a screed or repair medium.

PRIMARY USES

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 where chemical resistance is required, for arris repairs or 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.

MasterTop 1240 is used extensively in the following industries:

- Food production Meat processing
- Vegetable and fruit canning
- Dairy products, bakeries and confectioners
- Chemical production and processing
- Textile production - bleaching and dying
- Metal processing and engineering

ADVANTAGES

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

COLOURS

MasterTop 1240 is available in neutral; dust grey and red colours.

PACKAGING

MasterTop 1240 is supplied as a multi component 30kg pack.

TYPICAL DATA OF HARDENED MATERIAL

Cured at 7 days at 20°C	Standard	Results
Compressive strength	DIN 1164	60N/mm ²
Flexural strength	DIN 1048	21N/mm ²
	DIN ISO	1.5N/mm ²
Bonding strength	4624	(concrete failure)
Applied density		2.10
Abrasion resistance	DIN 53754- Taber	18mg
Modulus of elasticity	DIN 1048	18000N/m ²
Co-efficient of linear thermal expansion	DIN 53752	3x10 ⁻⁵ K ⁻¹

APPLICATION PROCEDURE 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.

The method of surface preparation will be dictated by the size of area to be treated, location and degree of contamination. Specialist finishes should not be applied to concrete, which contains more than 5% moisture by mass. The substrate can be considered sufficiently dry only when the Relative Humidity (RH) at the surface falls to 75% or less when measured with a hygrometer to BS 8201: 1987 Appendix A.

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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. Floors in wet process areas which require over coating before they are dry should be treated with products from the **MasterTop 1700 series**. Consult Master Builders Solutions Egypt's 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.

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.

At all details where **MasterTop 1240** systems will terminate, for example, at expansion, control or movement joints, at doorways, channels or columns, the material must be given a mechanical bond to the substrate using tie chasers. Tie chasers are grooves cut in existing concrete about 20mm deep and wide. Tie chasers can be cast during initial construction using polythene coated timber battens or cut prior to surface preparation.

Prior to application **MasterTop 1240** should be stored under cover in dry conditions and protected from extremes of temperature, which may cause inconsistent workability, finish and cure times of the mixed material. Ideally, at least 24 hours before mixing, **MasterTop 1240** should be maintained at approximately 20°C.

PRIMING:

Prime using **MasterTop 1200** Primer. Mix the two components using a slow speed drill with a suitable paddle. Mix until uniform consistency is obtained. The components are pre-weighed and should not be split or divided. Also **MasterTop P651** three component epoxy primer can be used.

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

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 pre-weighed 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 30°C, working times will be reduced significantly.

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SEALING:

When the floor is subjected to chemical or oil spillage or when hygiene is important, the finished surface must be sealed. MASTERTOP 1175 or **MasterTop 1110** can be used to seal **MasterTop 1240**.

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.

COVERAGE PRIMER:

Primer will cover 4-6m²/kg depending on substrate.
MasterTop 1240 – 30kg unit yields 14.29ltr.

EQUIPMENT CARE

Remove uncured **MasterTop 1240** using solvent.

STORAGE

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction and protect from extremes of temperatures. In tropical climates the product must be stored in an air-conditioned environment.

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's Technical Services Department.

SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

SAFETY PRECAUTIONS

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. Re-seal containers after use.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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