

MasterTop[®] 1240 (formerly known as MasterTop 1240 PLUS)

Epoxy resin based floor topping for medium to heavy duty traffic

DESCRIPTION

MasterTop 1240 is a colored industrial flooring mortar screed based on advanced solvent free epoxy resin system and selected graded aggregates. The mixed mortar can easily be laid by trowel to a joint less, abrasion and chemical resistant topping. Where situation demands, the aggregate content can be reduced to yield a self-sealing mortar.

RECOMMENDED USES

MasterTop 1240 is recommended for industrial floors, where excellent mechanical properties and chemical resistance are essential. It is ideal for:

- Manufacturing and storage areas.
- Areas subject to traffic and loading.
- Wet process areas.
- Re-profiling worn and damaged floors.
- Textile production – bleaching and dying – areas.
- Metal processing and engineering plants

FEATURES AND BENEFITS

- **Resistant to wide range of chemicals, abrasion and impact-** suitable for industrial environments
- **Slip resistant** – safe in wet areas
- **Impervious** (at lower Aggregate content) – prevents staining.
- **Pre proportioned, consistent** – no site variations.
- **Aesthetic** - Wide colour range

PROPERTIES

Mixed density	: 2.00 kg/litre
Pot Life	: 40 mins at 25°C 20 mins at 40°C
Setting time/ foot traffic	: 10 hours at 25°C
Vehicular traffic	: 36 hours at 25°C
Maximum service temperature	: 60°C
Compressive strength (ASTM C579)	: 35 MPa at 1 day 60 MPa at 7 days
Flexural strength (BS 6319 part 3)	: 22 MPa at 7 days
Tensile strength (BS 6319 part 7)	: 10 MPa at 7 days
Abrasion Resistance H22 wheel (ASTM C501, 1000 cycle)	: < 0.5 gm
Hardness, Shore D (ASTM D 2240)	: > 80
Adhesive bond strength to concrete (ASTM D4541)	: > 2 MPa (concrete failure)

APPLICATION

The floor receiving **MasterTop 1240** must be sound, dry, fine-grained and load bearing, free of laitance, loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Remove cement laitance and weak concrete by shot blasting, scarifying or grinding followed by vacuum cleaning. The bond strength of the substrate must be at least 1.5 MPa. Ensure that the compressive strength of floor concrete is at least 25MPa and that floor slabs directly in contact with the ground have a proper vapour barrier installed and the moisture content of substrate shall not be higher than 5% through-out.

Temperature Requirements

- Substrate temperatures: 15°C – 35°C
- Material temperatures: 15°C – 30°C

In cold weather conditions, pre-condition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at



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20-25°C will reduce the possibilities of flash/slow setting and other defects.

Repair damaged or deeply pitted areas using **MasterTop 1240** or using **MasterProtect 1880**.

Use aluminum channel or wooden beading of suitable height as forms along the borders to help finish the topping to the desired thickness.

Priming

Use **MasterTop P 1620**. Mix Base for one minute until a homogenous mix is obtained. Add Hardener completely to the Base container and mix using an electric drill fitted with a wing paddle or a paint type stirrer. Apply the mixed primer onto the prepared surface at 4 – 6 m²/kg, in a continuous film. Recoat if the primer appears matt or dry in patches within 30 – 40 minutes.

Body Coat

Mixing

Use either a pan type mixer or a heavy-duty drilling machine fitted with a helical paddle to mix MasterTop 1240. Add the entire colour pack to the Base and mix until the pigment is evenly dispersed. Add the Hardener to the pigmented Base and mix for 1-2 minutes. Transfer the mixture to a clean pail and add the Aggregate component while continuing to mix until a homogenous and uniformly colored mix is obtained. Maintain the same mixing time for every batch to ensure colour uniformity. If a totally sealed surface is desired, reduce the Aggregate component by up to 10% or apply a sealer coat.

Placing

Apply the body coat on to the primer when it is still wet or tacky. If the primer has dried, recoat within 24hr. Apply the mixed material by trowel and screed bar to minimum 3mm thickness. Mixed material can also be spread on the floor using a screed box. Strike off excess mortar and level with a straight edge. Trowel to the desired finish. A blotchy surface appearance indicates over-trowelling.

Sealer Coat

Sealer coat is an optional coat to seal the surface totally. Use **MasterTop 1210** (refer separate data sheets) as sealer coat. Apply the sealer coat at least 10hr after the Body coat and preferably within 24hr. After a long interval, surface preparation could become more time consuming.

RESPONSIBILITY

The technical information and application advice given in this BASF 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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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Curing

MasterTop 1240 is self-curing. Under normal circumstances initial curing will take place overnight. The topping will be fully cured in 7 days.

MasterTop 1240 is supplied in 15kg packs consisting of Base, Color pack, Hardener and Aggregate.

ESTIMATING DATA

The consumption of both the primer and body coat depends on floor profile, thickness, filler content and wastage.

Each 15kg pack of **MasterTop 1240** on mixing yields 7.5L and shall cover 2.5 m² area at 3mm thickness.

Components

Base	1.04 Kg
Hardener	0.54 Kg
Aggregate	13.07 Kg
Colour pack	0.35 Kg

PACKAGING

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical

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climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above

our office or our website.

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 BASF Material Safety Data Sheet (MSDS) from

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