

MasterTop[®] BC 1245

High strength epoxy underlay

DESCRIPTION

MasterTop BC 1245 is a multi-component epoxy underlay consisting of specially selected resins and graded aggregates. When correctly applied, **MasterTop BC 1245** will withstand impact shock and chemical attack and will provide a surface ready to receive applications of other epoxy and polyurethane coating systems.

TYPICAL APPLICATIONS

MasterTop BC 1245 is used to level floors prior to laying other performance flooring coatings, as well as other floor finishes, such as ceramic tile or natural stone.

MasterTop BC 1245 is designed for application in the range of 10-50 mm: greater thickness can be achieved by the application of subsequent layers.

Contact your local Master Builders Solutions representative for advice.

ADVANTAGES

- Durable and hard wearing
- High performance
- Economical
- Seamless
- Fast and easy application

PACKAGING

MasterTop BC 1245 is supplied as a 30.19 kg (15 L) multi component pack.

TYPICAL PROPERTIES*

Laboratory tests carried out at 25°C and 40°C

	25°C	40°C
Compressive strength (ASTM C579) 7 days	45 N/mm ²	50 N/mm ²
Flexural strength (BSEN 1015-11)	>12 N/mm ²	>15 N/mm ²
Pot life @ 25°C	40 min	
Initial hardness	16-24 h	
Full cure	7 days	

APPLICATION GUIDELINES

SURFACE PREPARATION

It is essential that **MasterTop BC 1245** is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.

New concrete floors

Should be at least 21 days old (at 20°C) with a maximum moisture content **not exceeding** 5%. Laitance deposits on new concrete floors are best removed by light grit blasting, mechanical scabbling or grinding.

Old concrete floors

Mechanical removal and cleaning methods must be used on old concrete floors particularly where heavy contamination by oil and grease has occurred or existing coatings are present. To ensure suitable adhesion, all contamination should be removed before application.

PRIMING

All surfaces treated with **MasterTop BC 1245** should be primed with a **MasterTop P 650** or **MasterTop P 651**, an epoxy resin primer designed for maximum absorption and adhesion to concrete substrates. Once mixed, immediately apply the primer in a thin continuous film to the clean prepared surfaces. Work the primer into the surface and avoid over application and ponding.

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On porous floors, primer will be absorbed very quickly leaving characteristic light coloured dry patches. It is recommended that a second priming coat is applied in such cases.

MIXING

It is important that **MasterTop BC 1245** is mixed correctly.

Suitable mixing equipment must be used, such equipment being defined as either a heavy duty variable speed drill and mixing spiral or forced action mixers such as creteangle or similar.

Empty the entire contents of the Part B resin component into Part A container and mix until uniform streak free colour is obtained (max. 1 minute). Place the mixed resin components into the clean, suitably sized container and while mixing slowly add the bag of aggregate. Mixing of all components shall continue for a further 3-4 minutes, until all the aggregates are fully wetted.

PLACING / APPLICATION

The mixed **MasterTop BC 1245** should be spread onto the still "tacky" primer between the previously placed screed battens and strike off to level. Compact the placed material using a wood or plastic float and close the surface using a steel trowel or lightweight power trowel. Overworking can result in burnish marks.

The material must be applied within the pot life after mixing (see "Properties"). After this time unused material should be discarded.

Overcoating of the **MasterTop BC 1245** with any other Master Builders Solutions floor system should not start until the **MasterTop BC 1245** is at least 24 hours old. The primers advocated by the flooring systems are to be employed prior to overcoating.

Expansion joints in the existing substrate should be continued through the **MasterTop BC 1245** and any subsequent topping and filled to the required level with a suitable sealant from the Master Builders Solutions range. Consult Master Builders Solutions Technical Services Department for advice.

CLEANING

All tools and equipment should be cleaned immediately after use with a suitable solvent such as Xylene / MEK / Acetone.

COVERAGE / YIELD

A 30.19 kg multi-component unit on **MasterTop BC 1245** will yield 15 L of mixed material.

Consumption: approx. 2 kg / mm / m²

STORAGE AND SHELF LIFE

MasterTop BC 1245 have a shelf life of 12 months when stored in a dry place below 35°C in their original, unopened packs.

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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 skin and eyes immediately. If accidentally ingested, seek medical attention. Reseal containers after use. For further information refer to the material safety data sheet.

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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