

MasterTop[®] BC 304F

A highly decorative, solvent-free, multi-component epoxy terrazzo floor screed

DESCRIPTION

MasterTop BC 304F is a solvent-free multi-component epoxy terrazzo floor screed combining brightly coloured pigmented epoxy resin with coloured glass, graded aggregates and mother of pearl to provide a durable yet highly decorative flooring system.

MasterTop BC 304F forms the basis of the **MasterTop DTZ** flooring system which finds use in applications such as:

TYPICAL APPLICATIONS

- Hospitals
- Restaurants
- Cafes
- Night Clubs
- Showrooms
- Government Buildings
- Public Buildings
- Airport Terminals
- Hotel Receptions

ADVANTAGES

- Seamless
- Durable
- Decorative
- Excellent Compressive & flexural strengths
- High design potential
- No shrinkage
- Highly versatile
- Repairable
- Low maintenance
- Easy to clean

PACKING AND COLORS

MasterTop BC 304F is supplied in working packs.

MasterTop BC 304F PTA	9.645 kg
MasterTop BC 304F PTB	1.305 kg
MasterTop BC 304F PTC	20 kg
Total unit weight	30.95 kg

MasterTop BC 304F is available in a wide range of colours.

For more information, please consult Master Builders Solutions Technical department.

TYPICAL PROPERTIES*

Shore D hardness	80
Water Absorption (ASTM C413)	0.1%
Flexural strength (BS 6319)	>20 N/mm ²
Compressive strength (BS 6319)	>65 N/mm ²
Density (approx.)	2.1 g/cm ³
Tensile strength (BS 6319)	>11 N/mm ²
Adhesion to concrete	Greater than the cohesive strength of concrete
Abrasion resistance (Taber test to ASTM D 4060)	0.09 g (per 1000 revolution)

APPLICATION GUIDELINES

MasterTop BC 304F is supplied as a three-component system which is pre-packaged in the exact ratios. Before mixing, pre-condition the components to a temperature approximately 15-25°C. Pre-mix the **MasterTop BC 304F** Part A for 1 minute to create a uniform colour dispersion. Pour the premixed Part A into a large clean mixing bucket (25/30 litre) and ensure all resin is thoroughly scrapped out. Add the Part B and mix slowly for 30 seconds. Whilst the mixer is running slowly add the Part C and mix thoroughly until all aggregates are thoroughly wetted out (1-2 minutes). Do not mix by hand, mix with a mechanical drill and paddle at very low speed.

Spread all of the mixed **MasterTop BC 304F** on to the floor immediately after mixing and spread by steel trowel to the correct thickness.

For complete application details refer to the current version of the *Method Statement & Applicator Guide*.

The curing time of the material is influenced by the ambient material and substrate temperature. At low temperatures the chemical reactors slow down. This lengthens the pot life, open time and curing time. High temperatures speed up chemical reactions thus the time frames mentioned above are shortened accordingly.

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If temperature higher and materials fluidity higher or segregation observed do not proceed and consult Master Builders Solutions Technical Services Department for advice.

Master Builders Solutions Technical Services Department will advise thixotropic agent based on site conditions.

COVERAGE / YIELD

Approximately 22 kg/m² at 10mm thickness will produce an 8 mm finish after grinding and polishing.

STORAGE AND SHELF LIFE

Store in original containers under dry conditions and temperature between 15–25°C. Do not expose to direct sunlight. Avoid excessive compaction. 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 advise consult Master Builders Solutions UAE's Technical Services Department.

PRECAUTIONS

The substrate should be fully cured prior to the application of **MasterTop BC 304F**.

An effective moisture vapour barrier is required for substrates on grade or below grade. The substrate must be structurally sound and cleaned of any foreign matter that will inhibit adhesion and curing. The architect should address joint details prior to the job starting with the flooring contractor.

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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