

# MasterTop® 545

# Rapid setting cementitious floor underlayment

# **DESCRIPTION**

**MasterTop 545** is an economical, non-sag, cementitious, non-structural, floor patching material intended for use over poured in-situ and precast concrete floors which will be covered by a cementitious underlay.

**MasterTop 545** has been specifically formulated to achieve fast setting mortar.

# **RECOMMENDED USES**

- · Filling holes and penetrations
- Levelling up floors
- Ramps
- Coves
- · Internal floors above or below grade

#### **FEATURES AND BENEFITS**

- Rapid strength gain fast installation of MasterTop 545 and subsequent toppings.
- Simple installation trowellable
- Fast continuation of underlayment application
  ready for foot traffic after 60 minutes
- Fast Return to Service return to service in 24 hours
- Multi-purpose compatible with most carpet and tile adhesives

#### Note:

**MasterTop 545** is not suitable as a finished topping layer for external use.

# **PROPERTIES**

Supply form	Powder
Water added per bag 20kg)	4.5 - 4.7 litres
Colour	Grey
Application temperature (substrate and ambient)	5°C to 30°C
Toxicity	Non-toxic
Compressive Strength (AS 1478.2 App A)	
1 Day	>20MPa
28 Days	>35MPa
Work time @ 23°C & 50% RH humidity	20 minutes
Foot traffic @ 23°C & 50%RH approx.	~1 hour
Pull off bond strength @ 28 days	~1.0MPa
VOC content SCAQMD method 304-91	15grams/litre

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

# **APPLICATION**

#### Substrate condition

Substrate must be clean and free of oil, sealers, curing compounds, paint, polymer coatings, dust or other foreign (bond breaking) matter. Substrate profile should be 3-5mm roughness.

Remove all weak or broken pieces of concrete. If necessary, employ mechanical cleaning methods and equipment. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shotblasting equipment. **MasterTop 545** is best applied where the application temperature is between 5°C and 30°C. Outside this range, please refer to your local Master Builders Solutions Technical Representative.

Note: Joints should always be cut in toppings directly above those in the base slab to avoid random cracking.

# **Priming**

Apply **MasterTop P 1600** to the dry substrate by roller, brush, low pressure spray or squeegee. On very porous or absorbent substrates, two coats may be required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow to fully dry before application of **MasterTop 545**.

MasterTop 545 can be applied from 0.5mm to 50mm layer thickness. For localised thicknesses exceeding 50mm in thickness add 30% by weight of MasterTop F30 Filler to MasterTop 545. When adding MasterTop F30 Filler the water content should be reduced slightly.

Floor levelling compounds can be placed over **MasterTop 545** without priming if **MasterTop 545** is still moist. If hardened it must be primed.

### Mixing

Mechanical mixing is required for **MasterTop 545** For small areas, a slow speed stirrer of not more than 600 rpm such as a Festool RW 1000 mixer fitted with a helical (e.g. Jiffy) paddle, is suitable. Place the required water into the mixing vessel and slowly add powder to the water. Mix until lump free.



# MasterTop® 545

MasterTop 545 is self-curing, but as with all cementitious products, in hot weather take adequate measures to protect it from exposure to direct sunlight and air movement.

DO NOT use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floor coverings.

# **ESTIMATING DATA**

A 20kg bag of MasterTop 545 mixed with 4.5 litres of water yields 12.6 litres (0.0126m3).

#### **PACKAGING**

MasterTop 545 available in 20kg bags.

# SHELF LIFE

MasterTop 545 has a shelf life of 6 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

#### **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 Master Builders Solutions Material Safety Data Sheet (MSDS) from our office or our website.

® = registered trademark of a MBCC Group member in many countries of the world

MAP#MasterTop\_545 v2-12.2020

#### 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.

# MB Solutions Singapore Pte Ltd

1 Harbourfront Avenue #07-07/08 Keppel Bay Tower, Singapore 098632

Tel: +65 6232 4888