

MasterTop[®] 546

Rapid setting cementitious floor underlayment

DESCRIPTION

MasterTop 546 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 546 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 546 and subsequent toppings.
- **Simple installation** – trowellable
- **Shrinkage Compensated**
- **Fast continuation of underlayment application** - ready for foot traffic after 60 minutes
- **Fast Return to Service** - return to service in 2 hours
- **Multi-purpose** – compatible with most floor covering adhesives
- Note:
- **MasterTop 546** is not suitable as a finished topping layer for external use.

PROPERTIES

Supply form	Powder
Water added per bag (20kg)	4.5 - 4.6 litres
Colour	Grey / Brown
Application temperature (substrate and ambient)	5°C to 30°C
Toxicity	Non toxic
Compressive Strength (AS 1478.2 App A)	
90 Min	➤ 10Mpa
1 Day	> 25MPa
28 Days	> 50MPa
Work time @ 23°C & 50%	15 minutes

RH humidity	
Foot traffic @ 23°C & 50%RH approx.	~1 hour
Pull off bond strength @ 28 days	~1.0MPa
Relative Humidity ASTM F2170	< 75% 2 Hours

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 546 is best applied where the application temperature is between 5°C and 30°C. Outside this range, please refer to your local BASF Technical Representative.

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

Priming only required for very dense or very porous substrates

Apply **MasterTop 1600 / 1604** 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 546**.

Concrete substrate of acceptable porosity needs to be pre wetted to provide a visibly damp surface but free of standing water.



The Chemical Company

MasterTop[®] 546

MasterTop 546 can be applied from 0.5mm to 50mm layer thickness. For localised thicknesses exceeding 50mm in thickness add 25% by weight of **MasterTop F30 Filler** to **MasterTop 546**. When adding **MasterTop F30 Filler** the water content should be reduced slightly.

Floor levelling compounds can be placed over

MasterTop 546 without priming if **MasterTop 546** is still moist. If hardened it must be primed.

Mixing

Mechanical mixing is required for **MasterTop 546**

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 546** 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 546** mixed with 4.5 litres of water yields 12.2 litres (0.0122m³).

PACKAGING

MasterTop 546 available in 20kg bags.

SHELF LIFE

MasterTop 546 has a shelf life of 6 ±2 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 BASF Material Safety Data Sheet (MSDS) from our office or our website.

ID#MasterTop546v3-0914

STATEMENT OF 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.

BASF Australia Ltd
ABN 62008437867

Construction Chemicals Division
11 Stanton Road Seven Hills, NSW 2147

Sales Offices:

Sydney, Brisbane, Melbourne, Adelaide,
Perth

Freecall: 1300 227 300

BASF Emergency Advice:

1800 803 440 within Australia (24hr)
0800 944 955 within New Zealand

BASF New Zealand Ltd
BASF WEB SITES

45 William Pickering Drive, Albany, Auckland, Phone: 0800 334 877
www.basf-cc.com.au www.basf-cc.co.nz