

MasterTop[®] 540

Self-levelling cementitious floor overlay

DESCRIPTION

MasterTop 540 is an economical, self-levelling, cementitious, non-structural, floor overlay intended for use over poured in-situ and precast concrete floors that are to be subject to light traffic conditions.

MasterTop 540 has been specifically formulated to achieve a fast setting, level and flat surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED USES

- Finishing rough screeded floor
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Refurbishment over terrazzo, quarry or ceramic tiles
- Internal floors only

Do not use in the following areas:

- Externally
- Areas subject to weather, to impact, to constant moisture and heavy industrial applications

FEATURES AND BENEFITS

- **Highly fluid and pumpable** - for fast installation.
- **Rapid strength gain** - ready for foot traffic after 6 hours and return to service in 24 hours.

PROPERTIES

Supply form	Powder
Water added per bag (20kg)	4.8 litres
Colour	Light Grey
Application temperature	10°C to 30°C
Thickness	7-20mm

PERFORMANCE DATA

	1 day	28 days
Compressive strength (AS 2073)	10MPa	30MPa
Flexural strength	4MPa	5MPa
Work time @ 23°C	40 mins	
Setting times @ 23°C – Initial	1 - 1½ hours	
– Final	1½ - 2½ hours	
Foot traffic @ 23°C 50%RH	approx. 6 hours	
Pull off bond strength	1.0MPa	
VOC Content 6g/L Test method: SCAQMD 304-91		

Note: The data shown is based on controlled laboratory tests. Reasonable variations from the results can be expected in practice.

APPLICATION

Substrate condition

Substrate must be dry, clean and free of oil, sealers, curing compounds, paint, polymer coatings, dust or other foreign (bond breaking) matter. 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. A surface profile of CSP 3-5 is desirable. **MasterTop 540** is best applied where the application temperature is between 10°C and 30°C.

Voids and cracks (water pipes, holes, drainage pipes etc) should be filled to prevent seepage through to lower levels. Consult with your local BASF for product recommendations.

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

Priming

Apply **MasterTop 1600** to the dry substrate by roller, brush, low pressure spray or squeegee. 2 coats are required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow to dry before application of **MasterTop 540**.



We create chemistry

MasterTop® 540

Mixing

Mechanical mixing is required for **MasterTop 540**.

For small areas, a slow speed stirrer of not more than 600 rpm such as a Festo RW3E 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. Mixing time is 4 minutes.

Whilst mixing, add powder within 3 minutes then mix for a further 1 minute. Allow to stand for 3 minutes then remix prior to application. For more efficient production it is recommended to use two mixing buckets for continuous production of **MasterTop 540**. For larger jobs, the use of a mechanical mixer/pump unit is recommended (such as a Putzmeister MP 25)

Application

Hand Held Mixer: Pour mixture from buckets over substrate or pump through a suitable pump to desired thickness, smooth where necessary by use of a trowel.

Mechanical mixer/pump: Progress should be steady and even with the application hose discharge point approximately 200mm from the floor. Application should take place continuously into the preceding wet material to ensure even thickness and flow.

With either mixing technique, do not make new edges and 'fill in' the middle.

Minimum thickness 7mm, maximum thickness 20mm.

ESTIMATING DATA

A 20kg bag of **MasterTop 540** mixed with 4.8 litres of water yields 12.0 litres

MasterTop 540				
L	Thickness in mm /m ²	m ³	bags /m ³	m ² /mm thickness
12.	12.mm	(0.012)	82	12. m ²

CURING

MasterTop 540 is self-curing, but as with all cementitious products in hot weather, take adequate measures to protect it from exposure to direct sunlight and hot winds. 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 flooring coverings. **MasterTop 540** must be sealed using two coats of **MasterTop TC 495** or **MasterTop 1260**.

CLEANING

Tools should be cleaned with water before material hardens.

PACKAGING

MasterTop 540 available in 20kg bags.

SHELF LIFE

MasterTop 540 has a shelf life of 12 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 Safety Data Sheet (SDS) from BASF office or website.

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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.

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