

# MasterTop<sup>®</sup> 510 (Formerly known as Mastertop P-10)

Self-levelling cementitious floor underlayment

## DESCRIPTION

**MasterTop 510** is a self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in-situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles or natural stone. 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 floors
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors

**MasterTop 510** is not suitable as a finished topping layer for external use.

## FEATURES AND BENEFITS

- **Highly fluid and pumpable** - Fast installation
- **Rapid strength gain** - Return to service in 24 hours
- **Economical** - Low installed cost
- **Resistant to cracking** - Long life of the floor
- **Fast setting** - Ready for foot traffic after 3-4 hours to reduce time floor inaccessible
- **Multi-purpose** - Suitable for most carpet and tile adhesives

## PROPERTIES

	1 day	28 days
Compressive Strength (AS 1478.2 App. A)	>12 MPa	>27 MPa
Flexural strength (ASTM C 348)	3 MPa	5 MPa
Working time @ 23°C	30 mins	
Setting times @ 23°C – Initial – Final	1 - 1.5 hours 1.5 – 2.0 hours	
Foot traffic @ 23°C & 50%RH	approx. 3 hours	
Drying shrinkage @ 7 days (BASF Test Method)	<300 microstrain	
Pull off bond strength	1.0 MPa	
VOC content Test method: SCAQMD method 304-91	14 grams/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 and test conditions.

Supply form	Powder
Water added per bag (20kg)	4.8 – 5.0 litres
Colour	Light Grey
Application temperature	5°C to 30°C
Toxicity	Non toxic

## APPLICATION

### Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light shot blasting or grinding.

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

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

Note: Expansion joints should always be reflected through the toppings to avoid random cracking.

### Priming

Apply **MasterTop 1600** (formerly Mastertop P Primer) to the dry substrate by roller, brush, low pressure spray or squeegee. On very porous or absorbent substrates, 2 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 510**.

### Mixing

Mechanical mixing is required for **MasterTop 510**. For small areas, a slow speed stirrer of not more than 600 rpm such as a Festo RW3E mixer fitted with a cage paddle, is suitable.



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Place the required quantity of water into the mixing vessel. Whilst mixing, slowly add the powder to the water then mix for a total of 4 minutes.

For improved efficiency and continuous application of **MasterTop 510**, it is recommended to use at least two mixing buckets.

For larger jobs, the use of a mechanical mixer/pump unit is recommended. Refer to your local BASF Technical Representative for suitable machines.

### Method of use

Pour mixture over substrate or pump through a suitable pump to desired thickness.

Do not coax **MasterTop 510**; it will seek its own level. For hard to reach areas and touch-ups, a spreader may be used.

Whether pouring from a mixing vessel or using a mechanical mixer with an application hose, the discharge point should be approximately 200mm from the floor to prevent splashing and air entrapment.

Progress should be steady and even. Application should take place continuously into the preceding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle.

Edges may be feather edged using a steel trowel if required. Maximum thickness should be 30mm. If greater thickness is required, **MasterTop 510** should be mixed MasterTop F30 Aggregate on a 1:1 basis by weight and applied to a maximum of 80mm.

### CURING

**MasterTop 510** 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 floor coverings.

### ESTIMATING DATA

One 20kg bag of **MasterTop 510** yields 12.2 litres

### PACKAGING

**MasterTop 510** is available in 20kg moisture resistant bags.

### STORAGE / SHELF LIFE

Containers should be stored tightly sealed in a dry place.

**MasterTop 510** has a shelf life of 12 months.

### PRECAUTIONS

Irritating to eyes. Keep out of the reach of children. For the full health and safety hazard information, first aid measures 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.

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