

# MASTERTOP<sup>®</sup> P-10

Self-levelling cementitious floor underlayment

## DESCRIPTION

**MASTERTOP P-10** 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 FOR

- finishing rough screeded floors
- levelling up floors
- refurbishing old floors
- resurfacing internal rain damaged floors

## FEATURES AND BENEFITS

- **highly fluid and pumpable for fast installation**
- **rapid strength gain for fast installation of floor coverings**
- **low installed cost**
- **resistant to cracking**
- **ready for foot traffic after 3-4 hours**
- **return to service in 24 hours**
- **suitable for most carpet and tile adhesives**

**MASTERTOP P-10** is not suitable as a finished topping layer for external use.

## PERFORMANCE DATA

	1 day	28 days
Compressive Strength (AS 2073)	min. 12MPa	min. 27MPa
Flexural strength (ASTM C 348)	3 MPa	5 MPa
Work time @ 23°C	30 mins	
Setting times @ 23°C – Initial	1 - 1½ hours	
– Final	1½ - 2½ hours	
Foot traffic @ 23°C & 50%RH	approx. 3 hours	
Drying shrinkage @ 7 days (BASF Test Method)	<300 microstrain	
Pull off bond strength	1.0MPa	
VOC content*	14grams/litre	

\* Test method: SCAQMD method 304-91

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.

## ESTIMATING DATA

A 20kg bag of **MASTERTOP P-10** mixed with 5.0 litres of water yields 12.2 litres (0.0122m<sup>3</sup>).

## PROPERTIES

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

### Substrate condition

Substrate must be 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.

**MASTERTOP P-10** is best applied where the application temperature is between 5°C and 30°C. Outside this range, please refer to your local BASF Construction Chemicals Technical Sales 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 Construction Chemicals Technical Sales Representative 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 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 P-10**.

### Mixing

Mechanical mixing is required for **MASTERTOP P-10**.

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. Mixing time is 4 minutes.

Place the required quantity of water into the mixing vessel. Whilst mixing, slowly add the powder to the water within 3 minutes then mix for a further 1 minute. Allow mixed **MASTERTOP P-10** to stand for 3 minutes and then remix prior to application.



The Chemical Company

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For improved efficiency and continuous production of **MASTERTOP P-10**, 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 Construction Chemicals Technical Sales Representative for suitable machines.

### Method of use

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

Do not coax **MASTERTOP P-10**; 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.

The fresh wet topping can be rolled immediately with a suitable long spiked roller to release all air retained within the underlayment. Do not roll material that has been applied for more than 2-3 minutes.

Edges may be feather edged using a steel trowel if required. Maximum thickness should be 20mm. If greater thickness is required, **MASTERTOP P-10** should be mixed with silica sand (0.7-1.2mm or 1.0-2.0mm) on a 1:1 basis by volume and applied to a maximum of 50mm.

### CURING

**MASTERTOP P-10** 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.

### CLEANING

Tools should be cleaned with water before the material hardens. Hardened material will need to be mechanically removed.

### SHELF LIFE

**MASTERTOP P-10** can be stored in tightly sealed original bags for 6 months if kept dry and at a moderate temperature.

### PACKAGING

Available in 20kg moisture resistant bags.

### PRECAUTIONS

**MASTERTOP P-10** is not toxic, but as with other products containing cement it has an alkaline nature and thus can be irritating to skin and eyes. Wear simple dust masks and gloves when handling.

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.

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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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