

# MASTERTOP® P-45

Rapid setting cementitious floor underlayment

## DESCRIPTION

**MASTERTOP P-45** 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 P-45** has been specifically formulated to achieve fast setting mortar.

## RECOMMENDED FOR

- filling holes and penetrations
- levelling up floors
- ramps
- coves
- internal floors above or below grade

## FEATURES AND BENEFITS

- fast installation
- trowellable
- rapid strength gain for fast installation of underlayment
- low installed cost
- ready for foot traffic after 60 minutes
- return to service in 24 hours
- suitable for most carpet and tile adhesives

**MASTERTOP P-45** is not suitable as a finished topping layer for external use.

## PERFORMANCE DATA

	1 day	28 days
Compressive Strength (AS 1478.2 App A)	>20MPa	>35MPa
Work time @ 23°C	20 mins	
Foot traffic @ 23°C & 50%RH	approx. 1 hour	
Pull off bond strength @ 28 days	1.0MPa	
VOC content*	15grams/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-45** mixed with 4.5 litres of water yields 12.6 litres (0.0126m<sup>3</sup>).

## PROPERTIES

Supply form	Powder
Water added per bag (20kg)	4.5 - 4.7 litres
Colour	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. 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 P-45** 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 Representative.

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, 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 P-45**.

**MASTERTOP P-45** can be applied from 0.5mm to 30mm layer thickness. For localised thicknesses exceeding 30mm in thickness add 30% by weight of **MASTERTOP F30 Filler** to **MASTERTOP P-45**. When adding **MASTERTOP F30 Filler** the water content should be reduced slightly.

Floor levelling compounds can be placed over **MASTERTOP P-45** without priming if **MASTERTOP P-45** is still moist. If hardened it must be primed.

### Mixing

Mechanical mixing is required for **MASTERTOP P-45**. 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.

## CURING

**MASTERTOP P-45** 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.

## CLEANING

Tools should be cleaned with water before the material hardens.



The Chemical Company

# MASTERTOP® P-45

## SHELF LIFE

MASTERTOP P-45 can be stored in tightly sealed original bags for 6 months if kept dry and at a moderate temperature.

## PACKAGING

Available in 20kg bags.

## PRECAUTIONS

MASTERTOP P-45 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 Construction Chemicals **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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