

# MASTERTOP 524

## Fast Setting, Pumpable, Self Levelling Floor Screed – Light/Medium Traffic

### Description of Product

MASTERTOP 524 is a polymer modified shrinkage compensated, cementitious, self levelling floor screed in powder form requiring only the addition of water. The fluid consistency allows rapid installation rates and fine tolerances using mix and pump machines.

MASTERTOP 524 may be used as a final wearing surface to receive light/medium traffic in dry areas. It must be sealed or coated for wet use. Mastertop 524 may also be used as a heavy duty underlayment for tiles, soft coverings or coatings

### Fields of Application

A tough, durable, high strength topping which provides a smooth, dense, flat surface. Can be applied from 2 to 25 mm thickness onto the prepared substrate. Normal thickness is between 6 - 8 mm.

MASTERTOP 524 is not suitable for exterior use.

### Features and Benefits

- Self smoothing (eg TR34 Category 1)
- Suitable for application depths between 2 – 25mm.
- Pump applied for high application rates and minimum downtime.
- Sets hard within 4 hours depending on temperature
- High early strength
- Polymer modified – low shrinkage and high bond strengths
- Low odour formulation

### Technical Data/Typical Properties

Appearance	Grey granular powder
Pot life	20 minutes at 20°C
Setting time (Vicat)	60 minutes
Compressive strength	
1 day	>15 N/mm <sup>2</sup>
7 days	>25 N/mm <sup>2</sup>
28 days	>30 N/mm <sup>2</sup>
Flexural strength	
28 days	6.0 N/mm <sup>2</sup>
Walk-on time	4 hours
Full traffic	24 hours
95 % final strength	7 days
Min. application temperature	4 <sup>0</sup> C and rising
Application thickness	2 to 25 mm

### Application Procedure

#### Preparation of Substrate

The floor to be treated must be sound and free from dust, loosely adhering material, plaster and cement droppings, grease, oil and paint, and any contaminants which may prevent adhesion. Mechanical preparation such as vacuum shotblasting, planing or scabbling is necessary to provide a clean surface with a mechanical key. Finally the surface should be cleaned using vacuum cleaners. Surfaces should be free of standing water or excess moisture.

Damp proof membranes must be intact and functioning



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#### Priming

##### Existing concrete

After preparation concrete and cementitious surfaces should be primed using PRIMER PLUS in 2 coats.

**First Coat** – dilute PRIMER PLUS at a rate of 1 part primer to 5 parts clean water and apply liberally using a soft brush, roller or squeegee so that the concrete becomes uniformly darkened. Avoid ponding. Allow to dry, typically overnight. Typical coverage of the diluted primer is 2 – 3 m<sup>2</sup>/litre.

**Second Coat** – dilute PRIMER PLUS at a rate of 1 part primer to 3 parts of clean water and apply by brush, roller or squeegee to the whole of the area to be covered. Avoid ponding. When this second coat is touch dry or translucent, apply the topping. Typical coverage of the diluted primer is 4 m<sup>2</sup>/litre.

**Note** - always apply the topping within 24 hours of priming. Porous substrates may require extra priming.

Alternatively the surface can be primed with MASTERTOP PRIMER 601 sand blinded with a fine dry aggregate. The loose aggregate can be removed after 24 hours and the MASTERTOP 524 applied directly to the sanded substrate. For more details on this primer system or advice on substrates where there is no DPM, contact BASF Construction Chemicals (UK) technical service department.

#### New Concrete

New concrete should be at least 28 days old prior to application of PRIMER PLUS. All traces of curing compounds and construction contamination must be removed by mechanical means as above.

#### Pump Application

MASTERTOP 524 is formulated for application by continuous feed pumps designed for this application. This work should be carried out by fully trained, experienced and equipped flooring contractors. Please contact BASF Construction Chemicals (UK) for information.

#### Manual Application

##### Mixing

Slowly add the contents of the bag (25 kg) to a maximum of 4.8 litres of clean water, mixing to a lump-free creamy consistency using suitable mixing equipment i.e. slow speed drill and paddle or forced action mixer.

##### Application

Apply the mixed MASTERTOP 524 onto the prepared and primed surface and trowel to a smooth finish to a maximum depth of 25mm. Further layers should not be applied. A spiked roller should be used to give a superior finish and release trapped air.

#### Caution

Do not mix more than can be laid in 20 minutes. The free-flowing properties of MASTERTOP 524 are reduced after 10 minutes and workability will be lost after 30 minutes. Never reconstitute the mix after initial stiffening has taken place. Do not work below 4°C. Always turn off under-floor heating and allow sub-floor to cool and do not switch it on again for at least 24 hours after completion. Do not allow to dry too quickly in hot weather.

#### Coverage

1.6 kg of powder per m<sup>2</sup> per mm thickness, depending on surface.

#### Cleaning

All tools and equipment should be cleaned with water immediately after use.

#### Packaging

Available in 25 Kg sacks.

#### Storage

MASTERTOP 524 should be stored under cover, clear of the ground and stacked not more than 6 bags high. Protect the materials from all sources of moisture and frost.

#### Shelf Life

Rotate stock in order not to exceed the shelf life of 12 months.

#### Watchpoints

##### Specification

All floors indicated shall be smoothed/topped with MASTERTOP 524 manufactured by BASF Construction Chemicals (UK), or similar approved, composed of cement-based powder with filler and organic additives.

The material should be applied strictly in accordance with manufacturer's instructions.

#### Overcoating

MASTERTOP 524 can normally be overcoated with a resin based coating after a cure period of 24 hours at 20°C. Contact BASF Construction Chemicals (UK) for details.

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## MASTERTOP 524 BASF Construction Chemicals UK Ltd Version 6 – July 2007

### Health and Safety

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

### Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

### Spillage

Chemical products can cause damage; clean spillage immediately.

### Disclaimer:

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