

# MASTERTOP<sup>®</sup> 503

## Flexible floor levelling compound

### Description

A two component system comprising an acrylic polymer and cement based powder. The components are mixed on site to produce a self smoothing, flexible floor levelling compound which spreads easily on to suitably prepared substrates at up to 6mm thickness.

Specifically developed for use in temperatures ranging from 15°C to 60°C where added flexibility and adhesion are required.

### Primary uses

To provide a durable, self smoothing floor surface which will protect the substrate from mild chemical attack and water penetration.

For use as an underlay for carpets and tiles.  
Can be used as a light duty floor if coated with MASTERTOP<sup>®</sup> 1110 T.

### Advantages

- Self smoothing
- Improved adhesion characteristics
- Water resistant
- Tensile strengths in excess of 160% of powder water mixes
- Improved flexibility
- Can be used on plywood or steel floors.
- Improved abrasion resistance
- Cushioning effect reduces fatigue and pedestrian noise.
- Supplied in pre-weighed units
- Easy to use
- Self curing
- Non dusting

### Packaging

MASTERTOP<sup>®</sup> 503 is supplied as a two component system of a liquid latex (5kg) and a grey powder base (20kg). Total pack size is 25kg. Yield is 14 litres.

### \*Typical properties

Colour	grey
Freezing point	0°C
Coverage	2.6kg per m <sup>2</sup> at a thickness of 1.5mm

### Application procedure

#### Surface preparation:

The floor to be treated must be free from dust, loosely adhering material, plaster and cement droppings, grease, oil and paint, etc.

Large, spalled areas, cracks and pot holes should be raked out and cleaned before applying MASTERTOP<sup>®</sup> 503. Holes can be filled with a mixture of 3 parts MASTERTOP<sup>®</sup> 503 POWDER, 1 part liquid latex and up to 2.5 parts of 1-4mm aggregate all measured by volume.

Porous surfaces such as concrete and sand: cement screeds should first be dampened down with water or (preferably) primed with a bonding agent such as RHEOMIX 121 diluted 1:2 with water at a rate of 5-6m<sup>2</sup> / litre or the latex component. Apply the MASTERTOP<sup>®</sup> 503 mix to the primed area whilst still damp.

Timber surfaces should be primed with RHEOMIX<sup>®</sup> 121 diluted with water. Steel surface should be primed with CONGRESIVE<sup>®</sup> 1414. Allow the primer to become tacky before applying MASTERTOP<sup>®</sup> 503.



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## Mixing:

Pour 90% of the resin component into a suitable mixing vessel. Using a suitable slow speed (300-400 rpm) drill fitted with a mixing paddle, mix the material until a smooth paste free from lumps is obtained, at which point the remainder of the resin can be added. Continue mixing until all the resin is absorbed.

## Application:

Pour the mixed material onto the previously primed and tacky surface.

Using a trowel (notched or plain), pin screed or squeegee, spread the MASTERTOP<sup>®</sup> 503 to the required thickness.

As soon as possible after levelling, roll the material with a spiked roller to release trapped air and achieve a flat surface.

## Curing:

MASTERTOP<sup>®</sup> 503 does not require curing, but it should be protected from wind, and water for 24 hours.

## Watchpoints

- In warm weather store materials in cool room prior to use. Keep the mixed temperature less than 30°C. Ideal mixed temperature is 20°C. The lower temperature gives longer working time.
- Never re-constitute the mix after initial stiffening has taken place.
- Do not work at temperatures below 4°C.
- For use at thickness greater than 6mm, consult your BASF representative.
- Always turn off under floor heating and allow sub-floor to cool before the application of

MASTERTOP<sup>®</sup> 503 and do not switch it on again for at least 24 hours after completion.

## Equipment care

Clean all equipment in water immediately after use.

## Specification clause

### MASTERTOP<sup>®</sup> 503

All floors indicated shall be levelled with MASTERTOP<sup>®</sup> 503, flexible floor levelling compound manufactured by BASF Construction Chemicals UAE LLC, or similar approved, complying to the following specification.

Composition : Two component floor levelling / system comprising of liquid latex and a cementitious powder combined with selected fillers, and dispersing agents.

MASTERTOP<sup>®</sup> 503 is to be applied strictly in accordance with the manufacturers instructions.

## Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Technical Services Department.



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## Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention. Reseal containers after use. For further information refer to the Material Safety Data Sheet.

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## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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\* Properties listed are based on laboratory controlled tests.

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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