

# MasterTop<sup>®</sup> 505 (formerly known as

**MasterTop 505)**  
**Cementitious, Self Levelling Flooring Compound**

## Description

MasterTop 505 is cementitious, ready for use, self levelling flooring compound used for surface levelling prior to facing with PVC, carpeting, laying ceramic tiles, marble, mineral stone, parquet flooring, for levelling coarse and rough concrete as well as for repairing damages. It possesses free flow and fluidity characteristics, is pumpable; recommended for the thickness of 3 to 10 mm.

## Field of Application

Due to its ease and efficiency in use the product is generally suitable for large premises such as:

- Hospitals,
- Shops,
- Schools and administrative buildings,
- Hotels,
- Apartment houses,
- Supermarkets,
- Shopping malls.

## Benefits

- Suitable for the inside of buildings;
- Easy and quick to apply;
- Reduces labour costs;
- Mixed only with water;
- Self levelling not requiring any trowel and float used;
- Prevents contraction, cracking, peeling.

## Physical Properties

Composition:	Contains mineral fillers and polymer reinforced special cement
Colour	Grey

Compress. Strength 28 days	Not less than 15 MPa
Adhesion to concrete strength (28 days)	Not less than 0.5 MPa
Product application time	Approx. 20 - 35 minutes
Time following which coating can be trodden upon	In 24 hours
Product substrate temperature	+ 5 °C - + 25 °C
Full strength development	28 days

## Packaging

In 25 kg polyethylene reinforced kraft bags.

## Mixing

5 – 5.4 liters of water are poured for 25 kg of MasterTop 505 compound. Then MasterTop 505 compound is added gradually and the mixture is continuously mixed with a low-speed drill until there are now lumps in the mix. It is allowed to rest during 3 minutes, and then mixed for a short time to obtain the ready for use compound. The time of work with ready compound is 20 minutes. An overdosage results in reduction of coating strength and in multiple shrinkage cracks.

## Application Procedure

### Substrate preparation:

Any cement substrates of surface strength not less than 15 MPa are suitable. The substrate must be strong, dry, free from dust, residues of cement grout or gypsum mortar, oils etc. potentially affecting the compound adhesiveness. Butts, joints, and cracks must be repaired. Prior to apply MasterTop 505, the substrate must be primed with Astar-A, at least 6-8 hours in advance. For floors with under-floor electric heating, additional safety measures must be taken to prevent compound ingress into electrical contacts.

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## Priming:

In order to prevent blistering, contribute to adhesion and prolong the working time of the product Astar A primer is used. For the first layer it is diluted with water at a ratio of 1/1, the second layer is applied in the pure state. Primers are applied with a brush or roller. Primer coverage is 100 g per a square meter. Porous surfaces require 2 layers with the similar coverage of 100 g/m<sup>2</sup>. Following priming, at least in 6-8 hours the self-levelling compound is poured.

## Application Procedure:

The ready compound is poured manually or by means of a pump onto a primed surface and is uniformly spread over it with an adjustable trowel or wide toothed trowel at the required thickness. The compound spreads evenly by self levelling. Release any entrapped air with a spike roller. Pour the compound uniformly, starting from the far corner of the room. Subsequent batches of the compound should be joined during 15 minutes. MasterTop 505 shouldn't be applied at temperatures below +5 °C and sudden fluctuations in temperature should be prevented. During compound application and drying the surface must be protected against fast drying, i.e., against any draughts, direct sunlight, and high ambient temperatures. The coated surface can be trodden upon after 12 hours.

## Note!

In order to obtain a levelled surface the product should be applied continuously. Thereby, with reference to the room area, the number of mixing buckets and personnel should be planned in advance. The availability of required tools is of high importance as well, such as:

a drill with an attachment, adjustable trowel or toothed trowel, spike roller, spiked shoes.

## Coverage

Approximately 1.5 – 1.9 kg of compound per square meter to reach the thickness of 1 mm.

## Application Temperature

The compound should be applied within the temperature range of +5 °C to 25 °C.

In cold weather the room should be heated up to the required temperature.

The product temperature should correspond to +20 °C to 25 °C before application.

Working time of cementitious systems is affected by ambient and surface temperature and relative humidity in the air. Hydration slows in lower temperatures and this increases the working time. Higher temperatures increase hydration and the above mentioned time decreases accordingly.

For the material to harden temperature should not drop below the recommended temperature.

Subsequent coatings should be applied in some 2-4 days, subject to compound coating thickness.

## Cleaning

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

## Storage and Shelf Life

Bags with compound should be stored at a temperature not below +5 °C, in conditions ensuring package intactness and protection against moisture, on pallets elevated above the ground. If the recommended storage conditions are not met this can result in damage of the product or package.

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Although the information given in the technical description is truthful and accurate, and combines verified data and best practices, our company cannot be held liable either for any unintended use of the product, or for technical recommendations provided, or actions of our representatives or distributors.

**All data provided in the technical description are revised regularly; it is the responsibility of the user to make sure to get the latest revision.**



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## Note

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

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

## Quality Statement

All the products produced and marketed by BASF Central Asia are produced under the control of quality management system possessing an independent certification and fully meeting the requirements of international quality, environmental and occupational health and safety standards ISO 9001.

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