



The Chemical Company

MASTERTOP® 100

Natural aggregate surface hardener

DESCRIPTION

MASTERTOP 100 is a pre-mixed, ready to use powder designed to be applied as a dry shake over freshly floated concrete floor or floor screed to obtain an aesthetically pleasing, coloured floor with significant improvement in its abrasion resistance. The product is based on selected hard wearing mineral aggregates blended with certain alkali and light fast colouring pigments and hydraulic binders. **MASTERTOP 100** is available in various standard colours. A Light Reflective grade is available to order.

RECOMMENDED FOR

MASTERTOP 100 is recommended for treating floor areas not exposed to serious chemical attack and where uniform appearance and enhanced abrasion resistance are desired. Applications include floor areas of:

- Light Industrial and commercial buildings
- Basement and cellars
- Mechanical workshops
- Storage rooms
- Corridors, halls
- Educational institutions
- Parking areas
- Loading platforms

FEATURES AND BENEFITS

- **Uniform and intense colours**- attractive floors. Pleasant working environment.
- **Light and alkali-fast pigments**- durable, non-fading colours.
- **Good abrasion resistance**- minimised maintenance of floor surface.
- **Dense surface**- increased resistance to ingress of oil and grease. Easy to clean.

PERFORMANCE DATA

Abrasion Resistance (ASTM C779)

0.65mm at 60 minutes

(33MPa concrete more than 1.4mm at 60 minutes)

Impact resistance (LA Rattler)

50% weight Loss

(33MPa concrete has 70% loss of weight)

(See Technical Sheet 22 for explanation of abrasion and impact tests and how they relate to long-term durability of the floor)

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

The rate of application will depend on the service conditions that the floor will be exposed to and the richness of colour required. The recommended rate is 5kg per m².

APPLICATION

For information about application, please obtain a copy of the BASF "Application Guide for MASTERTOP 100" from your local representative.

Preparation of the Concrete

Concrete for single course monolithic floors should be capable of achieving a 28 day compressive strength of 30MPa with a slump of 80mm or less, and with no more than 3% air. Concrete should not contain calcium chloride.

MASTERTOP 100 is applied as a dry shake over freshly wooden bullfloated concrete.

COLOURS

MASTERTOP 100 is available in natural (concrete colour), light reflective and a range of colours. Please consult your local BASF Construction Chemicals technical representative with regard to minimum order quantities and lead times for coloured products.

FIELD SERVICE

BASF Construction Chemicals recommends that the user request the free services of the local representative for a pre-job conference to carefully place each step of the installation.

PACKAGING

MASTERTOP 100 is packaged ready to use in 25kg bags. No further measuring or mixing or ingredients is required or permitted at the jobsite.

SHELF LIFE

MASTERTOP 100 can be stored for 18 months.

PRECAUTIONS

- Application is strongly recommended to be done after roofing is completed. ONLY attempt modest size slabs without a roof.
- Do not apply over concrete containing added calcium chloride.
- Do not apply over concrete containing aggregate contaminated with salt or salt water.
- Do not apply over concrete containing more than 3% entrained air**.



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- Use only admixtures in the concrete that are approved by BASF Construction Chemicals.
- Do not use water, burlap or polyethylene covering for curing. Use only curing compounds approved by BASF Construction Chemicals.
- This product contains cement, which may cause irritation. Avoid contact with eyes and prolonged contact with skin.

** Higher entrained air contents are often required for concrete slabs exposed to water saturation and freeze/thaw cycles. The high air content makes proper application of dry shakes difficult or impractical, depending on the dimensions of the placement and ambient conditions.

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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