



The Chemical Company

MASTERTOP[®] 100

Natural aggregate concrete surface hardener

DESCRIPTION

MASTERTOP 100 is a premixed, ready to use powder, designed for application as a dry shake over a 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 five standard colours. A Light Reflective grade is available to order.

FIELDS OF APPLICATION

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
- basements 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.

TYPICAL PERFORMANCE DATA

Abrasion resistance (ASTM C779)	: 0.65 mm at 60 minutes
Impact resistance (LA Rattler)	: 50% loss of weight
Chemical resistance	: Medium to low

PROPERTIES

Supply form	: Powder
Colours	: Natural (Concrete Grey), French Grey, Tile Red, Sunlight Yellow and Light Green.

APPLICATION

Preparation

Use a concrete mix with a slump of 75 mm or less and maximum 3% entrained air. The design and construction of the floor should be adequate to withstand the traffic, impact and such other loads the floor is likely to be exposed to.

Do not use salt water or salt contaminated aggregates for making concrete, over which, coloured shakes are to be applied.

Placing

MASTERTOP 100 should be applied in two layers by broadcasting by hand. Approximately two-thirds of the total quantity should be applied in the first broadcast and the balance in the second.

First shake-on application

Mark the floor area into bays of convenient size and keep the required number of bags of **MASTERTOP 100** ready for each bay, depending on the rate of application specified. Broadcast the powder evenly by hand on the floor surface after the concrete has been floated and evaporation of bleed water. Apply first on floor areas adjacent to walls, columns, joints and doorways where the concrete is likely to loose moisture rapidly. After the applied **MASTERTOP 100** darkens in colour indicating absorption of moisture from the concrete and when the concrete has stiffened enough to prevent the float blades from digging into the surface, float the applied surface using wooden hand floats or power floats. Float just enough to bring the excess moisture to the surface.

Second shake-on application

Follow with the second application of **MASTERTOP 100** as the first application proceeds to next bay. Broadcast the remaining third of **MASTERTOP 100** evenly by hand, compensating with extra material over areas under-applied during the first broadcast. As soon as the second layer has darkened by moisture absorption, float the surface with a power trowel equipped with float blades or disc floats. If a coarse non slip surface is desired, start curing without any more finishing operations.

Finishing

The extent of further floating or trowelling depends upon the finish desired on the surface. For obtaining a medium, non slip finish, power float the surface for the third or fourth time depending on the setting characteristics of concrete. For obtaining a fine non slip finish, trowel the surface after it stiffens further using a hand or power trowel keeping the blades as flat as possible with out digging in the surface. For a superior smooth finish, trowel again after further stiffening of the surface with slightly raised blades, but avoid raising them to an angle that creates chatter marks

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or blisters on the surface. If either start to appear, remove them by reducing the angle of trowel.

For light coloured floors, a stainless steel trowel must be used during the second and subsequent trowellings.

When only a little paste starts clinging to the trowel blade, finish with a final trowelling with raised blades. Remove any pinholes and trowel marks by hand trowel.

Burnish trowelling

If a shiny smooth finish is desired, burnish trowel the surface.

Note

- Burnish trowelling is suitable only for natural coloured floors. Do not burnish trowel coloured floors.
- During hot, dry or windy conditions trowelling should be kept to the minimum to obtain the required finish. Start early curing to prevent damage to the floor from rapid drying.

CURING

Start curing immediately after final finishing using a liquid membrane curing compound such as MASTERKURE 181 or MASTERKURE 128.

Floors treated with pigmented shake on topping must not be cured with water, wet burlap, damp sand, ponding, plastic film or moisture resistant curing paper.

Protection

Barricade the area after the application of curing compound. Immediately after the curing compound dries, cover the floor surface to protect it from staining, discolouration, or physical damage.

CLEANING

Clean the tools and equipment with water before the paste sticking to them hardens.

ESTIMATING DATA

The rate of application will depend on the service conditions to which the floor will be exposed and the richness of colour required. The minimum recommended rates of application are as below:

For light traffic	: 3 kg/m ²
For medium traffic	: 5 kg/m ²
For heavy traffic	: 7 kg/m ²
For coloured floors	: 7 kg/m ²

PACKAGING

MASTERTOP 100 is available in 25kg bags.

SHELF LIFE

MASTERTOP 100 can be stored for 12 months from date of manufacture if stored in tightly sealed original packaging, in a dry and enclosed place.

PRECAUTIONS

MASTERTOP 100 is non toxic but alkaline like normal cement and can cause irritation to persons with sensitive skin. Wear gloves and masks while handling the product.

Take all precautions normally taken while handling cement.

Fire : MASTERTOP 100 is not flammable.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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

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