

# MasterTop<sup>®</sup> 105

Silicon carbide aggregate surface hardener

## DESCRIPTION

**MasterTop 105** is a non-metallic floor hardener, which contains silicon carbide and other specially graded aggregates. It is applied as a dry shake over freshly floated concrete to provide a durable, non-slip monolithic floor.

## RECOMMENDED USES

- Factories, workshops, showrooms, food and beverage processing areas, where a durable, non-rusting, non-slip floor is required to withstand moderate to heavy traffic
- Providing a durable, non-slip surface on ramps, stairs, landings etc. under wet or dry conditions
- Freezers & chillers with forklift traffic
- **MasterTop 105** is not recommended for use in areas where floor surface will be exposed to acids, their salts or materials which seriously and rapidly attack concrete. For applications under these service conditions consult BASF about their range of chemical resistant flooring systems, such as **MasterTop 1200** series.

## FEATURES AND BENEFITS

- **High abrasion and impact resistance** – Long service life
- **Better abrasion resistance than plain concrete** – Extended service life
- **Non rusting** – Suitable for wet environments
- **Non-slip** – Improved safety for personnel and forklifts in wet environments.
- **Dense surface** – Resists oil and grease penetration
- **Coloured surface** – Can create aesthetically pleasing environment
- **Easy application at time of placing concrete** – Floor available for full service once concrete is cured.
- **Able to applied at higher ambient temperatures** – Wide application range

## PROPERTIES

Abrasion Resistance (ASTM C779)	0.34mm at 60 minutes (33MPa concrete more than 1.4mm at 60 minutes)
Impact resistance (LA Rattler)	40% weight Loss (33MPa concrete has 70% loss of weight)
Hardness	Mohs scale : Silicon carbide 9

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

## APPLICATION

### 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 105** is applied as a dry shake over freshly wooden bullfloated concrete.

### Installation Procedures

See the Application Guide (available from your local BASF Technical Representative) for details on all aspects of the successful application of **MasterTop 105**.

## ESTIMATING DATA

The quantity of **MasterTop 105** required should be determined according to the anticipated service conditions.

Light to Moderate Duty: 2 to 3kg per m<sup>2</sup>

Moderate to Heavy Duty: 3 to 4kg per m<sup>2</sup>

## PACKAGING

**MasterTop 105** is available in 20kg moisture resistant bags.

## SHELF LIFE

**MasterTop 105** has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.



The Chemical Company

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## 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. 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. Consult your local BASF technical representative for more information.

- Use only admixtures in the concrete that are approved by BASF.
- Do not use water, burlap or polyethylene covering for curing. Use only curing compounds approved by BASF.

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 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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