

# Mastertop<sup>®</sup>100

## Dry-shake surface hardener for concrete industrial floors

### Description

Mastertop<sup>®</sup>100 is a natural cement grey surface hardener. The final colour of the floor is relatively dark and will have variances due to differing rates of power-floating (burnishing).

### Specification Information

Mastertop<sup>®</sup>100 meets the requirements of the former SA Department of Community Development specification and provides the dry-shake systems referred to in ACI committee 302 publication "Guide for concrete Floor and Slab construction."

### Typical Uses

Mastertop<sup>®</sup>100 provides concrete with wear resistance where non-dusting, abrasion resistant floors are required in industrial facilities :

- Warehouses and Storerooms
- Kitchens
- Cold rooms
- Factories
- Fresh Produce Markets
- Workshops
- Laboratories
- Speciality Processing Plants
- Abattoirs

### Special Features

Mastertop<sup>®</sup>100 has been formulated to provide superior ease of application and exceptional finishes if correctly installed. A unique approach to gap grading facilitates, aggregate interlock and paste extrusion during, application, thus improving the elimination of pin-holes.

### Application Rates

Light traffic	3kg/m <sup>2</sup>
Medium traffic	4-5kg/m <sup>2</sup>
Heavy traffic	6-7kg/m <sup>2</sup>

Examples of Mastertop<sup>®</sup>100 installations in SA:

Fresh Produce Market Cold rooms	5kg/m <sup>2</sup>
Industrial Training Centre brickwork demonstrations	5kg/m <sup>2</sup>
Warehouse for maize mill	6kg/m <sup>2</sup>
Ablution blocks, mine hostel	5kg/m <sup>2</sup>
Bakery storage area	4kg/m <sup>2</sup>
Glass manufacturer	5kg/m <sup>2</sup>
Chemical works	5kg/m <sup>2</sup>

See separate application rate criteria leaflet.

### Consultation

Request pre-specification consultation from BASF Construction Chemicals SA Technical Services to select the correct rate for your project.

### Strength

Mixed to a 25mm slump and tested in 70mm cubes, Mastertop<sup>®</sup>100 exceeds 60 MPa at 28 days surface strength.

### Colours

Mastertop 100 is a natural cement grey surface hardener. The final colour of the floor is relatively dark and will have variances due to differing rates of power-floating (burnishing). Should a coloured floor finish be required, Mastertop 190 should be considered – see Mastertop 190 data sheet for the full system requirements.



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## **Packaging**

25 kilogram polylined bags.

## **Application and Curing**

Application is by the dry-shake method onto concrete at approximately initial set during plastic phase. Given adequate notice BASF Construction Chemicals SA technical personnel will be available to advise contractors during the initial stages of construction. For full details see BASF Construction Chemicals SA Concrete Floor Hardener Installation Instructions. Power floating is recommended. Effective curing with BASF Construction Chemicals SA Masterkure 181, is essential and must be specified.

## **Cleaning & Sealing**

BASF Construction Chemicals SA has developed products for the stripping of curing membranes and the cleaning and sealing of floors where good appearance is a requirement. Various industries require specialised treatments. Consult BASF Construction Chemicals SA Technical Services for advice regarding cleaning and maintenance systems for industrial floors.

## **Suggested Specification for Mastertop<sup>®</sup>100 dryshake surface floor hardener**

Incorporate into the surface of concrete floors in areas noted on the drawings and/or listed in the floor finish schedule. kilograms per square metre of BASF Construction Chemicals SA Mastertop<sup>®</sup>100 quartz aggregate dry-shake hardener in two applications to the fresh concrete, strictly in accordance with the manufacturer's recommendations.

Trowel the floor to a smooth/non-slip/textured finish (insert client requirement), and cure with Masterkure 181 or Polycure.

## **Storage**

Store under cover, out of direct sunlight and protect from extremes of temperatures.

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

## **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 fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## **Note**

### ***For professional use only***

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods.



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## Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000

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Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

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