

# MasterTop<sup>®</sup> 200

## Iron aggregate surface hardener

### DESCRIPTION

**Mastertop 200** is industry's premier, iron-armoured, dry-shake surface hardener for industrial floors needing additional abrasion resistance and impact protection. It is designed to be applied over freshly floated concrete to provide an armoured monolithic floor.

**Mastertop 200** contains specially processed iron aggregate, laboratory selected and tested cementitious binder, plus plasticisers, water reducing admixtures and other proprietary ingredients.

### RECOMMENDED FOR

- Industrial installations needing extra abrasion resistance and impact armouring at a reasonable installation cost
- Distribution warehouses
- Mine facilities
- Aircraft hangers
- Power stations
- Loading bays
- Workshops
- Industrial floor surfaces subject to heavy or frequent traffic, steel wheels, AGV's, fork lifts
- Areas where surface dusting will affect the purity of manufactured products or the performance of precision machinery

Do not use in areas where floor surfaces will be exposed to acids, their salts, or like materials, which seriously and rapidly attack cement and/or iron.

### FEATURES AND BENEFITS

- **Increased abrasion resistance**-up to 8 times greater than plain concrete.
- **Much greater compacted density**-increases resistance to penetration by oil, grease, hydraulic fluids, ethylene glycol and many industrial chemicals.
- **Increased surface density**-allows easier and less expensive maintenance because absorption of water and cleaning agents is reduced.
- **Finished from smooth to slip resistant**-iron aggregate makes this product a virtually non-dusting surface hardener that may be finished to meet any requirement.
- **100% iron aggregate**-from special processing.
- **A floor which reduces wear**-on the wheels of material- handling equipment.
- **A variety of colours available**- as well as a special, energy-saving, light reflective formulation.
- **Economic and fast application**- reduced construction time.

### PERFORMANCE DATA

Thickness at 7.5 kg/m<sup>2</sup> - 2.8mm average  
 Compressive Strength - 110MPa  
 (28 days cured)  
 Impact Resistance - 200% better than plain concrete

### Abrasion Resistance (ASTM C779)

0.20mm at 60 minutes  
 (33MPa concrete more than 1.4mm at 60 minutes)

### Impact resistance (LA Rattler)

30% 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 on 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. The following rates are provided as a guide:

Service Conditions	Rate of Application (kg per m <sup>2</sup> )
Light to Moderate	3.0 to 5.0
Moderate	5.0 to 7.5
Heavy Duty	7.5 to 9.0
Very Heavy Concentrated	9.0 to 11.0

### 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 200** is applied as a dry shake over freshly wooden bullfoated concrete.

For information about application, please obtain a copy of the BASF "Application Guide for Mastertop 200" from your local representative.

### COLOURS

**Mastertop 200** 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.

### IRON ARMoured JOINTS

Iron-armoured joints consisting of **Mastertop 200** mortar incorporated into the freshly placed concrete joint edges greatly prolong the life of the joints. Iron armoured joints provide a 10 to 15 times greater serviceable life than a normal concrete joint edge.

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Refer to the BASF Construction Chemicals Application Guide for application details. Allow 3.3kg per lineal metre for one side of the joint.

### FIELD SERVICE

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

### PACKAGING

**MasterTop 200** is packaged in ready-to-use 25kg moisture resistant bags. No further measuring or mixing of ingredients is required or permitted at the jobsite.

### SHELF LIFE

**MasterTop 200** can be stored for 18 months.

### PRECAUTIONS

1. Application is strongly recommended to be done after the roofing is completed. ONLY attempt modest size slabs without a roof.
2. Do not apply to concrete containing added calcium chloride.
3. Do not apply to concrete containing aggregate contaminated with salt or salt water.

4. Do not apply to concrete containing more than 3% entrained air\*\*.
5. Use only admixtures in the concrete that are approved by BASF Construction Chemicals.
6. Do not use water, burlap or polyethylene covering for curing. Use only curing compounds approved by BASF Construction Chemicals.
7. 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.

### DISCLAIMER

SMT200/11/0310

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