

# MasterTop<sup>®</sup> 200

## Iron aggregate surface hardener

### MATERIAL DESCRIPTION

**MasterTop 200** is the industry's premier, ironarmoured, 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 iron armoured monolithic floor.

**MasterTop 200** contains specially processed iron aggregate in a cementitious binder.

### RECOMMENDED USES

**MasterTop 200** is recommended for :

- Industrial installations needing extra abrasion resistance and impact armouring;
- 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.

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 nondusting surface hardener that may be finished to meet any requirement.
- 100% iron aggregate - From special processing for strength.
- Available in a variety of colours as well as in a special energy – Saving light reflective formulation.
- Economic and fast application – Reduced construction time.

### PROPERTIES

Thickness at 7.5 kg/m<sup>2</sup>: 2.8mm average  
 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)

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 Duty	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 bull floated concrete. For information about application, please obtain a copy of the Master Builders Solutions "Application Guide for **MasterTop 200**" from your local representative.

### COLORS

**MasterTop 200** is available in natural (concrete colour) and light reflective. Please consult your local Master Builders Solutions 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.

Refer to the Master Builders Solutions Application Guide for application details. Allow 3.3kg per lineal metre for one side of the joint.

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### FIELD SERVICE

Master Builders Solutions 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 at the jobsite.

### SHELF LIFE

**MasterTop 200** can be stored in its original packaging for 12 months. Do not store in direct sunlight.

### 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. Do not apply to concrete containing aggregate contaminated with salt or salt water.
3. Do not apply to concrete containing more than 3% entrained air\*\*.

4. Use only admixtures in the concrete that are approved by Master Builders Solutions.

5. Do not use water, burlap or polyethylene covering for curing. Use only curing compounds approved by Master Builders Solutions.

\*\* 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 detailed Environmental, Health and Safety information, please consult and follow all instructions on the product Material Safety Data Sheet. Contact your local Master Builders Solutions office for the latest version.

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#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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