

MasterCoat 200

Iron aggregate surface hardener

Material Description

MasterCoat 200 is an 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 iron armoured monolithic floor.

MasterCoat 200 contains specially processed iron aggregate in a cementitious binder.

Areas of Application

MasterCoat 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. Alternate solutions such as Ucrete are suitable for this application.

Characteristics & 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 - specially processed for strength.

- Available in an energy saving version – light reflective formulation can reduce the number and intensity of the lighting needed in a warehouse.
- Economic and fast application – reduced construction time floor surface applied at the time of concrete placement.

Properties

| | |
|--------------------------------------|---|
| Thickness at 7.5 kg/m ² : | 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.

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 80 to 110 mm, and with no more than 3% air. Concrete should not contain calcium chloride.

MasterCoat 200 is applied as a dry shake over freshly wooden bull floated concrete. For information about application, please obtain a copy of the Application Guide for MasterCoat 200.

Application is strongly recommended to be done after the roofing is completed. ONLY attempt modest size slabs without a roof.

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

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

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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 ²) |
|--------------------|--|
| 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 |

| MasterCoat 200 | | |
|--|-------------------|-------------------------|
| | Bag | bags /100m ² |
| Light (5kg/m ²) | 4m ² | 25 |
| Moderate (7.5kg/m ²) | 2.7m ² | 38 |
| Heavy Duty (9kg/m ²) | 2.2m ² | 46 |
| Very Heavy Duty (11kg/m ²) | 1.8m ² | 56 |

Colours

MasterCoat 200 is available in natural (concrete colour) and light reflective. Please contact Master Builders Solutions with regard to minimum order quantities and lead times for coloured products.

Iron Armoured Joints

Iron-armoured joints consisting of MasterCoat 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 Application Guide for application details. Allow 3.3kg per lineal metre for one side of the joint.

Field Services

Master Builders Solutions recommends that the user request our free services for a pre-job conference to carefully plan each step of the installation.

Packaging

MasterCoat 200 is packaged in ready-to-use 20kg moisture resistant bags. No further measuring or mixing of ingredients is required at the jobsite.

Storage & Shelf Life

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

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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Disclaimer

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STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

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