

MasterCoat 105

Silicon carbide aggregate surface hardener

Material Description

MasterCoat 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.

Areas of Application

- 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
- MasterCoat 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 Master Builders Solutions about their range of chemical resistant flooring systems, such as MasterCoat ULTRA.

Characteristics & 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 or cold environments.
- Dense surface – resists oil and grease penetration
- Non-skid micro surface texture – suitable for use in freezers where ice can create slip hazards
- Easy application at time of placing concrete – floor available for full service once concrete is cured

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 80 to 110 mm, and with no more than 3% air. Concrete should not contain calcium chloride. Application is strongly recommended to be done after 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.

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

Installation Procedures

See the Application Guide (available from your local Master Builders Solutions Technical Representative) for details on all aspects of the successful application of **MasterCoat 105**.

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Estimating Data

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

Light to Moderate Duty: 2 to 3kg per m²
Moderate to Heavy Duty: 3 to 4kg per m²

MasterCoat 105	
Bag	bags /100m ²
4m ²	25

Packaging

MasterCoat 105 is available in 20kg moisture resistant bags.

Storage & Shelf Life

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

Disclaimer

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia Pty Ltd 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 and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

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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