

technical data sheet

FLOOR HARDENER NM

Premixed Non-Metallic Powder Floor Hardener

DESCRIPTION

Bostik Floor Hardener NM is a pre-blended, ready to use and dry shake formulation for hardening freshly placed horizontal concrete slabs and toppings. Floor Hardener NM produces a hard, dense, wear resistant surface which resists corrosion and absorption of grease, oils, alkalis and most chemicals. Typical areas of use include concrete floors in garages, steel mills, generating plants, loading platforms and wherever a heavy-duty wear resistant floor finish is required.

USES

- Ideal for use in warehouses, factories, car parks, driving and loading ramps, garages, mechanical /power rooms, wet rooms and outdoor surfaces of all kinds, etc.
- Easy to apply and even easier to maintain
- High abrasion and impact resistance
- Suitable for constantly wet areas; non-skid and non-slip
- Dust-proof
- Resistant to gas, oil, minerals, solvents and other chemicals

FEATURES

- Provides a monolithic hardening surface within the concrete matrix
- Provides a wear resistant surface
- Provides high impact resistance
- Easy to use and economical
- Non-slip characteristics
- Resists oil and grease penetration, and reduces dusting

TYPICAL PROPERTIES

Specific Gravity	3.2 g/cm ³ at 25°C
Compressive Strength	>60MPa
Abrasion Resistance	200% better than plain concrete (BS6431: Part 20)
Resistance to rusting	No rusting after 100 hours of salt spray (ASTM B117-97)

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete for single course monolithic floors should be capable of achieving a 28-day compressive strength of 20MPa (30MPa for heavy duty traffic areas) with a slump between 75mm and 100mm. Concrete should not contain calcium chloride.

Place concrete and consolidate with vibrators if necessary. Strike off concrete level. Further level and consolidate using a wooden bull float. Complete this operation before any bleed water appears. If there is free-bleed water on the surface, remove it just prior to the floating. The base concrete should then be allowed to stiffen sufficiently to bear the weight of a finisher before proceeding to the next stage.

APPLICATION

Floor Hardener NM should be applied in two coats using a dry shake method of uniformly broadcasting the product onto the surface of the freshly placed concrete.

Broadcast 2/3 of the Floor Hardener NM onto the fresh concrete surface. Float the broadcasted material into the surface with a mechanical or manual float after the hardener achieves a uniform moistened appearance. Do not steel trowel.

When the water sheen has again disappeared, broadcast the remaining 1/3 of the Floor Hardener NM onto the surface. Float the concrete surface in the same way as before. After the surface has achieved proper firmness, proceed with normal finishing procedures. Do not over trowel.

Final finishing of the floor using the blades of a power float can be carried out when the floor has stiffened sufficiently so that damage will not be caused.

As soon as the surface will not be marred, apply Bond'N'Cure to the surface immediately by roller or spray.

CLEAN-UP

Immediately after use, equipment and tools should be cleaned with clean water.



PACKAGING

Bostik Floor Hardener NM is supplied in 20kg bag.

COVERAGE

Light to Moderate Duty	2.5 to 3.5 kg/m ²
Moderate to Heavy Duty	3.5 to 5.0 kg/m ²
Super Heavy Duty	5.0 to 7.5 kg/m ²

STORAGE

Bostik Floor Hardener NM has a shelf life of 12 months from date of manufacture when kept in a dry store in the original, unopened bags.

All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

HEALTH AND SAFETY

- Bostik Floor Hardener NM contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.
- During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).
- The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

FIRE

Bostik Floor Hardener NM is non-flammable

Disclaimer: The information detailed in this data sheet is liable to modification from time to time in the light of experience and normal product application, and therefore customers are advised to check with Bostik Holding Hong Kong Limited, quoting the reference number that they possess the latest issue. The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Holding Hong Kong Limited be liable to anyone except for replacement of the products or refund of the purchase price.

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