

ShaliFloor® NM

Non-Metallic Floor Hardener



Description

ShaliFloor® NM is one part, pre-blended mixture of finely graded non-metallic aggregates, additives, cement and pigments and is used for concrete floor hardener recommended for both interior and exterior use, and also has non-rusting characteristic. It is added to floor surface to improve its abrasion resistance and inhibit dust formation.

Technical Characteristics @ 27°C

Surface Hardness, Mohs Scale (IS 13630 Part 13)	7 - 8	Relative Humidity, % • Minimum • Maximum	30 98
Abrasion Resistance (IS 1237) • Normal Traffic*, @ 3 - 4 kg / m ² • High Traffic, @ 7 - 9 kg m ²	2.60 mm wear loss 1.15 mm wear loss	Resistant to rusting (150 hrs. salt spray)	Non-rusting
Curing Time, days • Foot Traffic • Light Vehicle Traffic • Full Cure	1 - 2 8 - 10 28	Bulk Density, gm / cc Compressive Strength, N / mm ² , 28 days (ASTM C109)	1.6 60 - 70

* Depending upon surface condition.

Field of Application

Topping of monolithic floor subject heavy-duty use like in

- Warehouses
- Quays
- Service station.
- Garages
- Workshops
- Factory floors

Advantages

- High resistance to abrasion
- Reduced surface dust.
- Improved impact / wear resistance.
- Improve resistance to oil / greases.
- When sprinkled and troweled into fresh wet concrete floors, it forms a coloured, wear resistant smooth hardened surface
- Easy to clean. Non-rusting.

Application Methodology

➤ Surface Preparation

- Ensure that base concrete has minimum cement level of 300 kg of cement per cubic meter of concrete and a slump @ 50 - 75 mm.
- Ensure that compressive strength of concrete is 25 MPa minimal.
- Ensure that the thickness of surface is 15 cm minimum.
- Air entrant concrete is not suitable for dry shake hardener application.
- Use float to level surface. To remove excess / bleeding water, drag surface with a burlap or sack.
- After the concrete has stiffened somewhat, open the surface by floating with hand wood or power float.
- Ensure construction joints, expansion joints and floor joints are saw-cut only after 24 hours. When the slab has hardened, fill the joint with **ShaliSeal® PS**.

➤ Application of Material

- Remove bleed water of concrete before application of **ShaliFloor® NM**.
- Broadcast **ShaliFloor® NM** as per the doses uniformly over the SSD conditioned surface.
- For higher doses of application of **ShaliFloor® NM**, two stage application is to be followed dividing the desired quantity in the ratio of 50:50. Allow the first shake to remain unworked on the surface, until it has absorbed moisture and is of uniform in colour.
- Second Stage: Immediately after first broadcast of **ShaliFloor® NM**, apply second broadcast at right angles to the first one, making application to the edges first.
- Use a low rpm mechanical trowel, held perfectly flat for compaction. If parts of the surface come loose or if the laitance rises, please allow concrete to harden till a thump pressed hard on to the surface leaves a print of about 3 - 5 mm depth.
- Never add water to the surface for ease of trowelling.
- Smoothing is to be done as the initial set is achieved with the same trowel machine running a low speed quipped with metal smoothing blades set at minimum angle.
- If required, any final smoothing should be performed later with the machine running at higher speed.
- **ShaliFloor® NM** can be used in conjunction with vacuum dewatered concrete at maximum of 5 kg / m² spread rate.
- Cure the broadcasted **ShaliFloor® NM** floor with **ShaliCure® PA**.
- Alternatively use water ponding method or polyethene sheeting.

Cleaning & Maintenance

Tools and mixer may be cleaned with water before **ShaliFloor® NM** has hardened; otherwise, mechanical cleaning will be required.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 30 kg moisture resistant bags.

Storage

Store in cool dry place, under the shed, away from heat.

Shelf Life

6 months in original unopened sealed conditions.



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Advisory Cell: +91 81302 81114