

ShaliFloor® NM

Non-Metallic Floor Hardener



STP Limited

Description

ShaliFloor® NM is one part, pre-blended, mixture of finely graded non-metallic aggregates, additives, cement and pigments.

ShaliFloor® NM is a concrete floor hardener recommended for both interior and exterior use, and has non-rusting characteristic.

ShaliFloor® NM is added to floor surface to improve its abrasion resistance and inhibit dust formation.

Characteristics

Physical Appearance	Cementitious Powder	Theoretical Coverage *	
Abrasion Resistance	Treated concrete will give 150 - 225 % better abrasion resistance than control concrete	• Light Traffic	3.0 – 3.5 Kg/ m ²
		• Medium Traffic	4.0 – 5.0 Kg/ m ²
		• Heavy Traffic	6.5 – 7.0 Kg/ m ²
		Resistant to rusting (150 hrs salt spray)	Non-rusting
Curing Time, days		Bulk Density, Kg / L	1.6
• Foot Traffic	1 – 2	Compressive strength – 28 days	60 – 70 N/mm ²
• Light Vehicle Traffic	8 – 10		
• Full Cure	28		

* Depending upon surface condition.

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 trowelled 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 stage 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 equipped 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

12 months in original unopened sealed conditions.



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