

REC FLOOR H10 (NM)

Pre blended corundum based dry-shake hardener for durable, high-strength concrete floors

DESCRIPTION

REC FLOOR H10 (NM) is a premium, pre mixed mineral dry-shake surface hardener formulated with specially graded, high-hardness corundum aggregates, Portland cement, and performance- enhancing additives. Developed in the RECKON CHEMICALS PVT. LTD. R&D laboratory, it provides concrete floors with a hard, durable, and wear-resistant surface.

PRIMARY APPLICATIONS

REC FLOOR H10 (NM) is applied by sprinkling method to create the wear resistant surface of new internal and external concrete floors, even subject to intense vehicular or pedestrian traffic, in industrial or commercial environments such as:

- Automotive and mechanical industries in general.
- Manufacturing industries in general.
- Warehouses, couriers, freight forwarders, loading/unloading platforms.
- Car parks, external areas;
- Airport hangars, intermodal facilities, and large logistics warehouses.
- Shopping centers, shops, showrooms.
- Concrete floors in environments subject to intense vehicular and pedestrian traffic in general, etc.

KEY FEATURES

- Easy to apply.
- Excellent improvement of the wear resistance.
- It helps to increase the durability of the concrete floors.

TECHNICAL INFORMATION

REC FLOOR H10 (NM) is supplied ready to use and a powder mixture of a special high hardness aggregates based on corundum, Portland cement and special additives according to a formula developed in the RECKON CHEMICALS PVT LTD. R & D laboratory.

Due to its high mechanical strength and resistance to abrasion, **REC FLOOR H10 (NM)** is a suitable product to create monolithic industrial concrete floors subjected to intense traffic.

REC FLOOR H10 (NM) also has excellent resistance to atmospheric agents, freeze/thaw cycles and de- icing salts.

REC FLOOR H10 (NM) is designed for use as a cementitious dry-shake surface hardener for concrete floors and is formulated with performance characteristics relevant to EN 13813.

TECHNICAL PROPERTIES

Physical State	Powder
Color	Light grey – further colors upon request
Bulk Density	1,500 kg/m ³
Maximum size of aggregate	2.5 mm
Dry solids content	100 %
Chloride ions Content (EN 1015-17)	≤0.03 %

Density of the mix	2,400 kg/m ³
pH of the mix	> 12.5
Application temperature range	from +5°C to +45°C
Compressive strength (EN 13892-2)	≥80 N/mm ² (after 28 days)
Flexural strength (EN 13892-2)	≥7 N/mm ² (after 3 days) ≥ 8 N/mm ² (after 7 days) ≥9 N/mm ² (after 28 days)
Bond strength (EN 13892-8)	≥ 2 N/mm ² (after 28 days)
Abrasion resistance	> 395% compared to C25 Concrete (CS17, 1000 Cycle, 1000g)
Depth of penetration of water under pressure (EN 12390-8)	< 3 mm
Permeability to water (EN 1062-3)	w < 0.1 kg/m ² ·h ^{0.5} (Class III)
Reaction to Fire class (EN 13501)	A1FL
Consumption	2.5 to 5.5 kg/m ² (thickness 2.5 -3.5mm)

DIRECTIONS FOR USE

APPLICATION PROCEDURE

REC FLOOR H10 (NM) must always be sprinkled on the surface of fresh concrete before it starts to set, and may be carried out either manually or mechanically. When applied manually it must be applied in two layers, while for mechanical application it may be applied in one single layer.

PACKAGING

REC FLOOR H10 (NM) is available in 25 kg packs.

STORAGE

SHELF LIFE

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs. In tropical climates it is essential to store in air-conditioned warehouse.

STORAGE CONDITIONS

Store in dry conditions between 10°C and 40°C, away from sources of heat and naked flames in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.

HEALTH & SAFETY

REC FLOOR H10 (NM) contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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