

REC FLOOR FH(NM)

NON-METALLIC CEMENTITIOUS FLOOR HARDENER

DESCRIPTION

REC FLOOR FH(NM), a non-metallic floor hardener is specially formulated product containing accurately weighed cementitious materials and a high-quality natural aggregate which has been graded to particle sizes suitable for flooring work. It is free of organic impurities and provides improved impact and abrasion resistance. **REC FLOOR FH(NM)** is plasticized to provide greater ease of placing and finishing.

PRIMARY APPLICATIONS

REC FLOOR FH(NM) is designed for use as a surface hardener for concrete floors, which are subject to wear due to abrasion or impact from light to medium traffic. Using proper application procedures, it is possible to obtain an easily cleaned surface with good slip resistance. Since the natural aggregates used in **REC FLOOR FH(NM)** are non-metallic, it is non-rusting and suitable for both interior and exterior use.

FEATURES/BENEFITS

- Ready to use, dry shake material.
- Provides high impact resistance.
- Increases abrasion resistance with metallic additives.
- Increases resistance to oils and grease.
- Cost effective surface hardener.
- Good workability for easy and fast application.

TECHNICAL INFORMATION

Mixed DENSITY (25°C)	2.05 Kg/L
BOND STRENGTH (7 Days)	8.4 N/mm ²
FOOT TRAFFIC	72 Hours
COMPRESSIVE STRENGTH, at 28 days, 50.8 mm (2 inch) cube samples 0.45 water/cement ratio	55 MPa (8000 lb/in ²)
AGGREGATE HARDNESS	6.5 Mohs scale
SURFACE HARDNESS	8 Mohs scale
ABRASION RESISTANCE, wt. loss Taber Abrader, H22 Calibrade Wheels, 1000 g load, 1000 cycles	3.6 g (6.0 g for untreated concrete)

DIRECTIONS FOR USE

APPLICATION

Apply **REC FLOOR FH(NM)** in two dry shake applications of equal weight. Apply the first shake after sufficient floating has been carried out to bring enough moisture to the surface for combining with the dry material. When the first application of dry shake becomes dampened by the moisture from the concrete, refloat the floor surface to obtain thorough mixing of the shake with mortar from the concrete. Immediately following this floating, evenly distribute the remainder of the dry shake over the concrete surface. Carry out a final floating to obtain thorough mixing with the previously applied surface treatment. Avoid excessive floating. Use only stainless-steel trowels for hard troweling, where color uniformity is of importance.

COLOR

REC FLOOR FH(NM) is similar in color to conventional Portland cement concrete. The precise color will, however, depend on the particular concrete used and curing procedures adopted

TEMPERATURE

Concrete and air temperatures should be above 10 °C (50 °F) during the application of **REC FLOOR FH(NM)**. If space heaters are used to increase air temperatures, care must be taken to avoid damage to the concrete surface due to carbonation.

CURING

- Adequate curing is extremely important. Curing should commence as soon as final set has occurred and before the surface starts to dry. Conventional moist curing procedures such as water spray, ponding, wet burlap or plastic covers may be used with **REC FLOOR FH(NM)** if precise color uniformity is not required. Moist curing should be continued for at least 48 hours.
- If moist curing is not practicable or if color uniformity is of importance, a membrane curing compound such as Rec Cure & Seal should be applied to the concrete immediately after disappearance of bleed water after final finishing and before any surface drying occurs.

COVERAGE

Rates of application vary with the hardness required to suit the planned traffic conditions. Suitable application rates are:

	COVERAGE	
TRAFFIC CONDITION	lb./100 ft ²	kg/10 m ²
Light	60-80	30-40
Medium	80-100	40-50

CAUTION

- In cases of severe impact and abrasion the use of **REC FLOOR FH(NM)** may be preferable. Consult Reckon Products Ltd for advice.
- For best results the air content of the concrete to which the floor hardener is applied should not exceed 3% for concrete that will not be exposed to freezing and thawing. If **REC FLOOR FH(NM)** is to be applied to concrete which will be exposed to freezing and thawing, contact Reckon Products Ltd for advice on the air content and procedures required.
- While **REC FLOOR FH(NM)** will provide improved resistance to many chemical substances, it is not recommended for use on floors exposed to acids and their salts.

PACKAGING

REC FLOOR FH(NM) is available in 25Kg bag.

STORAGE

Twelve months from the date of manufacturing when in sealed pack and stored under proper condition. Store in a cool & dry place.

HEALTH & SAFETY

Wear suitable protective clothing, gloves and eye protection equipment during mixing and application. In case of contact with skin, rinse with plenty of water. In case of contact with eyes, immediately rinse with plenty of clean water. Seek medical advice, if needed. Keep out of reach of children.

DISCLAIMER

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