

VICAFLOOR-HT100®

Monolithic, Non-Metallic, Heavy duty Abrasion resistant Surface Hardener

Description

Vicafloor-HT100 is a one component Surface Hardener based on Portland cement, hardwearing graded aggregates, mineral additives and admixtures. **Vicafloor-HT100** is sprinkled on fresh concrete floors as a dry shake to act as a Heavy duty Abrasion and Impact resistant surface Hardener.

The mix contains no chlorides, ferrous metal or other deleterious materials.

Advantages

- Factory premixed for maximum quality assurance.
- Good abrasion and scratch resistance.
- Increased surface hardness and impact resistance.
- Reduced surface Dusting.
- Very economic and easy to apply
- Excellent adhesion.
- Decreased permeability to water & Oils.

Uses

Vicafloor-HT100 provides an extremely durable, high strength, impact, scratching and abrasion resistant floor which can be used in but not limited to the following:

- Ware houses, Workshops & production facilities
- Sidewalks and pavements
- Car service stations & Fuel Stations
- Garages & Car parks
- Places subjected to high vehicle traffic
- Any other place where High scratch and abrasion resistance are required

Standards & Specifications

Color	Cement Grey, Brick red, Yellow, and Black.
Toxicity	Non-toxic
Bulk density	≈ 1.6 Kg/L
Processing Conditions	5 -35°C & 35-75% RH, recommended 40-65%
Compressive strength according to BS EN 196-1(MPa)(4x4x16 prisms)	≥ 72@28days
Abrasion Resistance	≥ 300% improvement in abrasion resistance compared to C25 control concrete*
Tensile Adhesion	≥ 1.5 N/mm ²

Package & Coverage

Vicafloor-HT100 is supplied in 30 Kg packs.

The rate of consumption is 3 to 5 Kg / m² for a monolithic layer of about 2-3mm thickness

Allowance should be made for any possible wastage when estimating

Application Instructions

Surface Conditions

The flooring concrete should be well designed for a compressive strength not less than 25 Mpa, with enough cohesion in order to avoid any possible plastic settlement, bleeding and segregation.

The concrete surface must be well compacted & leveled using suitable equipment and good construction practices.

Application

- When the initial setting begins, when foot prints are not deeper than 5.0 mm start sprinkling **Vicafloor-HT100** uniformly at a constant rate of 3- 5 kg/m².
- As soon as the sprinkled **Vicafloor-HT100** becomes wet, start mechanical troweling.
- Curing is very important at least during the first three days. It can be done by the use of water means or by the use of a suitable curing compound.

Precautions

- Protect the **Vicafloor-HT100** bags from direct sun rays or any other source of heat before use, this can lead to a very fast setting.
- Avoid application in windy weather conditions.
- Never add water to the freshly applied dry shake.
- Color variations are normal due to variable curing conditions.
- After application, **Vicafloor-HT100** should be allowed to cure for at least 7 days before mechanical grinding.

Storage & shelf life

Vicafloor-HT100 should be stored in normal temperature and closed shaded dry area in undamaged original packing. It is recommended to be re-tested after 6 months from the production date.

Technical support

For any technical support, please consult our technical office or representatives.

Health and safety

Vicafloor-HT100 is alkaline in contact with water and should not come into contact with skin or eyes. Avoid inhalation of dust during application and wear safety glasses, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water. Should eye contact occur, rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

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