



Family
Floortech

Type
Surface hardeners for concrete floors

Product Lines
• **Infratech**

Functional Categories
• **Construction of high performance industrial concrete floors**
• **Wall structure treatments and repair of industrial concrete floors**

Components
Single-component

Appearance
Powder

FLR.0055

FLOOR VULKAN

Hardening cement dusting, high-performance, with basaltic aggregates

✘ Customs Code

3816 0000

⚖ Dosage

1 - 5 kg /m²
(Recommended: 2 kg /m²)

📦 Packaging

- Bag 25 kg
- Pallet: 50 x (Bag 25 kg)

🔧 Application

- Apply by hand
- Finishing trowel
- Power trowel

General description

Mineral, premixed, hardening mixture based on basalt, corundum, quartz, high purity superpozzolanic reagents (thickened silica fume) and hydraulic binders for the armoured surface, by dusting or paste, of concrete industrial floorings.

General features

In floors made of concrete, even if coated with pounces hardeners of traditional type, the "dust" is the result of abrasion and the consequent deterioration of the components of the friable cement paste cured: especially the calcium hydroxide, also called free lime Ca(OH)₂, notoriously unstable chemical profile, relatively soluble and inherently "brittle". FLOOR VULKAN is composed of "hard" mineral aggregates (basalts, quartz and corundum) bonded by cement suitably modified with silica fume (MICROSIL 90), which through superpozzolanic reaction (transformation of lime freed by hydrolysis during hydration, into new stable hydrous calcium silicate insoluble and resistant compounds), confer to the surface of the floor armoured with FLOOR VULKAN extremely high mechanical performance and overall durability.

FLOOR VULKAN uses the mineralogical properties of harder materials present in the Mosh scale. It is composed of selected pure quartz (the hardest of the quartzes normally used in the construction industry, Mosh scale = 7), Corundum (Mosh hardness = 9) and high hardness basalts (very hard effusive rock, tenacious and very wear resistant, Mosh scale = 7-8), which constitute the majority of the aggregates contained in the mixture.

FLOOR VULKAN is a product formulated in accordance with ACI 201 - 2R 77 - Guide to Durable Concrete: Section 3,4,6 "Recommendations for obtaining abrasion resistant surface".

Fields of application

Wear-resistant coatings and anti-dust concrete surfaces subjected to high abrasion stress: industrial flooring, pipes, spillways, road circuits and airport runways etc.

Available colours

• Gray

Basic features



Highlighted product



Density:
2000 kg/m³



Max. recommended thickness:
30 mm



Maximum diameter of aggregate:
2 mm



Min. recommended thickness:
1 mm



Nonflammable



Shelf-life:
12 months



Solvent-free



Temperature of use:
+5 / +30 °C



UV-resistant

Applicable on

Concrete

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Instructions for use

FLOOR VULKAN is a premixed product in 25 kg bags, ready-to-use, for application according to traditional methods (dusting or "paste").

Typical consumption:

- dusting the anhydrous mix on fresh concrete surfaces: 1-5 Kg/m²
- thick application as mortar on concrete surfaces (fresh-on-fresh): 15-20 kg/m²
- application, after laying an adhesive bridge (SYNTECH RGS or SYNTECH PAVIWATER T68), on the hardened concrete surfaces (for example ramps in a herringbone pattern): 20-30 kg/m²

Storage and preservation

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.



Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

Cure the moist hardening and the protection of exposed surfaces.

FLOOR VULKAN is produced/distributed by



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