Pavirat
pavimentos industriales
www.pavirat.com

PRODUCT DATA SHEET

PAVIRAT TILENUS®
Surface hardener for high-performance industrial concrete floors

PRODUCT DESCRIPTION

Pavirat Tilenus®, is a surface hardener for industrial floors that is applied to fresh concrete, providing to the concrete floor a high abrasion resistance and good resistance to impact and mechanical behavior.
Pavirat Tilenus® is formulated through a careful mixture of Portland cement, quartz and corondon aggregates, admixtures and pigments according to the UNE 80301-96 standard, providing an extra hardness and resistance to abrasion to the surface of the concrete.
These features are frequently required in industrial floors that are subjected to great mechanical stress, abrasion and impact, such as metallurgy industries, weapons, hangars, among others, where traffic is heavy and continuous.

APPLICATION

Pavirat Tilenus® is especially indicated for:

- Protect Industrial floors against damage caused by mechanical stresses, abrasión, scraping and impacts
- Industries with heavy traffic
- Logistics warehouses, cross docks and distribution facilities
- Logistics flat floors
- Hangars and port áreas
- Industrial floors where a good appearance is required

TECHNICAL DATA

Abrasion resistance	
UNE EN 13892-3, Abrasión Böhme	≤ 6 cm^3 / 50 cm^2
Mechanical strength	
UNE EN 13892-2,Determination of the compressive strength	≥ 60 N / mm^2
UNE EN 13892-2, Determination of flexural strenght	≥ 10 N / mm^2
Bulk density	
UNE EN 1097-3, Determination of bulk density	2,05 ± 0,25 Kg/dm^3
Bulk density in fresh state	
UNE EN 1015-6, Determination of bulk density of mortar in fresh state	2,55 ± 0,20 Kg/dm^3
Bulk density in hardened state	
UNE EN 1015-10, Determination of bulk density of mortar in hardened state	2,40 ± 0,20 Kg/dm^3

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TECHNICAL DATA

Appearance	Powder (colored)
PH Level	13 ± 1
Stability against ultraviolet radiation	Stable

DOSAGE

Pavirat Tilenus® should be applied at a rate of 3 - 8 kg/m^2 dry shaking and mechanical spreader. Over 8 kg/m^2 with fresh topping method.

METHODOLOGY OF USE

Precautions

- Apply at a temperature between 5 - 35º C, without direct exposure to the sun, excessive wind, rain or frost.
- Do not apply to concretes containing chlorides
- Limit the use of Plasticizers (≤ 0.20% s.p.c.), superplasticizers (≤ 0.70% s.p.c.) and concrete air entrained (≤ 3%) in concrete when using this product

Base preparation. Fresh concrete
The application support must be a concrete slab or floor, according to project specifications and regulations.
The concreting is carried out and when the concrete has reached the necessary resistance and a suitable amount of water from the exudation, it is recommended to carry out a previous mechanical power floating to improve the adherence with the hardener powder.

Application of Pavirat Tilenus®
Pavirat Tilenus® is applied to the new concrete by dry-shaking or as a fresh topping. In Dry-shaking apply 2/3 of the total dosage and introduce the material into the concrete by mechanical trowelling. Immediately afterwards, carry out the second application (remaining 1/3) and float until the desired surface finish is reached. In the fresh topping method Pavirat Tilenus® is mixed with water at a rate of 3.5 litres per 25 kg bag in a mortar mixer. The is poured onto the surface and levelled it.

Sealed:
Immediately after finishing the float, protect the surface with any of our acrylic curing resins. The resin will be applied by spraying at a temperature between 10 and 30º C.

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PACKAGING

Pavirat Tilenus® is packed in 25 kg bags, with the colors described in the bag surface.

STORAGE

Store in their original bags in a dry place with a temperature between 15 and 25ºC. Do not leave out in the open.
In optimal conditions it can be stored for 12 months.

SAFETY

For any specification or data relating to safety during application, handling, storage and use of the product, as well as disposal in case of inappropriate contact, the product safety data sheet should be consulted. It contains all the information related to safety, toxicity, ecology, physical and chemical properties, as well as first aid recommendations and other regulatory recommendations.

CE

UNE EN 13813

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