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FESCOTOP F45K FLOOR HARDENER



Product description

Fescotop F45K is a corundum aggregate, cement-based dry-shake floor hardener made in Finland for application on fresh concrete surfaces. Wear resistance class A6. Suitable for use in heavy duty applications.
Fescotop floor hardener forms a tread on the surface of the concrete floor to improve durability and tightness. The floor surface will be dust-free and very easy to maintain. Suitable for indoor and outdoor use.

- Wear resistance class A6
- Material usage 3 - 8 kg/m^2
- Maximum grain size 3 mm
- Increases the wear and shock resistance of the floor
- Improves the chemical resistance of the floor against oils and greases

Stock products: concrete grey (natural) and bright grey. On request: dark grey, black grey. Special colours can be tinted for each project. Minimum production run 3 pallets.

Applications

- Industrial facilities
- Logistics warehouses
- Loading docks
- Parking garages

The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

Instructions

Base

- Betongens rekommenderade hållfasthet är C25/30, vattencementtalet minst 0,5.
- Betong med högre hållfasthetsklass har lägre vattencementtal. Då räcker vattenmängden nödvändigtvis inte till för att fukta den utspridna golvhärdaren tillräckligt vilket kan orsaka en risk att produkten fäster på underlagsbetongen.
- Betongens luftmängd är max 3 %. Med golvbetong med kraftiga porer kan det uppstå ett fästproblem mellan härdarens yta och underlagsmassan.
- Temperaturen i underlaget bör vara minst +10°C.

Application

- The workspace must be protected from strong wind, sunlight and rain.
- Before applying the hardener, the concrete should be rubbed open to ensure that the concrete surface has sufficient moisture for the dry-shake to adhere.
- After rubbing, apply the dry-shake either manually or mechanically to the concrete surface in as even a layer as possible. If the application is carried out mechanically, the entire quantity is applied

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in one go.
- If the amount to be applied by hand is about 6 kg/m^2 or more, two applications are recommended.
- Before rubbing, the dry-shake should be thoroughly moistened with water.
- The rubbing of the dry-shake is first done with a low-speed machine. The continue rubbing until the dry-shake forms a plastic layer on top of the concrete.
- The finishing of the hardened floor, i.e. the shining, is started with a low-speed rubbing machine, with the levelling wings flat. Final finishing, shining, is done later on with the same machine, but at a higher speed.
- Wash the tools immediately with water after the work is completed.

Curing

- The dry-shake floor is refinished immediately after the last round of shining with Fesco's curing compound.
- Curing can be continued with water spraying or by placing a plastic film, a filter cloth on the floor, or with a combination of both.
- The duration of the curing is estimated by the flooring contractor together with the customer. The duration is affected by the type of concrete used, the conditions and the requirements of the site. As a general rule, curing should be continued for at least 7 to 14 days.

Other considerations

- If the air content of the concrete is high and the effective water-binder ratio is low, the adhesion of the dry-shake coating may be poor. When using a dry-shake coating in a frost-resistant structure, the amount of air in the concrete can be limited to a maximum of 3%. The frost resistance of the concrete used must be demonstrated with preliminary tests. (reference: By 68 Concrete selection and service life design – A guide for designers 2024, page 79).

Covering

- The product does not need to be coated.
- Can be polished and used as a so-called design surface.

Waste handling

Storage and handling of waste
See the separate storage and disposal instructions https://www.fescon.fi/en/material-bank

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Technical information

Material usage	3 - 8 kg/m^2, depending on the requirements set for the base, concrete quality, and working conditions Light to average load 3 - 5 kg/m^2 Average to heavy load 5 - 8 kg/m^2 Coloured floors 5 - 8 kg/m^2
Type	Powder
Binder	Special cement
Colour	Concrete grey, bright grey, dark grey, black grey
Maximum grain size	3 mm
Package size	25 kg
Storage	Storage time in a dry location approx. 12 months
Usage temperature	At least +10°C
Drying time	Pedestrian traffic 1-2 days Light traffic 7-10 days Fully dried 28 days
Strength class	C 70 (EN 13813)
Flexural bond strength	F 6 (EN 13813)
Wear resistance	A6 (Böhme-test 5,0 cm^3 / 50 cm^2)
Reaction to fire	A1
Frost resistance	Frostproof
Waterproofness	Water-resistant

Limitation of liability, product use notes and restrictions: Please familiarize yourself with Fescon Oy's general terms of delivery and the design and work instructions related to the product.