

Surface Hardener with Corundum Aggregate for Industrial Floors

Description

It is cement-based surface hardener with corundum aggregate, which protects the floors against impact and abrasion, is applied to the surface of the fresh concrete and screed.

TS EN 1504-2 TSE

Certified to EN 13813 CE.

Ministry of environment and urban planning, Pose No: 04.613/3F10-3F11-3F12

Areas of Usage

- * Applications which includes intense medium and heavy traffic, shipyards,
- * Indoors and outdoors; warehouses, garages and parking areas,
- * Industrial building floors, fresh concrete surfaces which are required to be mechanical abrasion resistant and dust-free, such as repair shops and workshops.

Product Features

- * The resistance of the applied surface to impact and abrasion increases 4-6 times compared to normal concrete.
- * Impermeability is high.
- * It prevents the concrete dusting.
- * It is easy to apply on carrier concrete.
- * It is available in three different color choices.
- * It includes corundum aggregate comprising special granulometric grain size.

Application Procedure

Concrete pouring

After plaster strips are prepared the concrete is poured. Concrete is compressed with vibratory screed. A last correction can be done with a wooden trowel. The carrier concrete of the field to be applied KORUND 120 F should be at least in C25 or 350 dose class.

Method of application

The concrete surface on which an application will be performed should not be too wet or too dry. If the concrete is too dry, surface hardener will not merge with concrete and it will be peeled off from floor. If the application is made when concrete is very wet, surface hardener will be separated, the required strength and resistance in the surface will no longer be received. If there is a 0.5-1.5 cm deep footprint when stepping on the concrete, the application is started. The ground should be wet enough to let surface hardener get the needed moisture.

In the application area; **KORUND 120 F** bags are stacked around the plaster strips according to the quantity of consumption. It is homogeneously thrown to the surface by hand or mechanical spreader. It is expected that the material sprinkled changes its color by pulling the water of the concrete. The material which is homogeneously sprinkled and color-changed by pulling the water of concrete is compressed with polishing tray and its integration is provided with concrete. For applications above 5 kg/m², 2/3 of the material is first scattered. After a disk operation, 1/3 of the remaining material is scattered. Polishing operation is performed again with the disk. After rough polishing process, final polishing should be made until the desired brightness is provided by means of fine knife adjustments. During the application, water should not be sprinkled to the surface.

Consumption

3-8 kg/m² according to the state of the load and traffic (for color applications, min. 5 kg/m²)

Curing

After the application of the material, **Parkür, Curing 105** or **Curing AST** products which are the curing materials should be applied to the surface in order to evaporate the hydration water quickly, prevent the shrinkage cracks and provide dust-free feature. The expansion grouts should be created by cutting at least 4 mm wide, no later than 24 hours after the concrete casting.

eile Polyurethane Sealant must be applied to avoid adverse situations such as refraction and dust emission in the grouts.

Points to take into consideration

- * Ground surface hardener must be applied by the expert implementers.
- * Application should be made in the range of + 5 °C to + 35 °C temperature.
- * It should not be applied on the surfaces that are frozen, melting or under the risk of frost within 24 hours.

Cleaning of Tool

After the application, tools and equipment used should be cleaned with water. The material can be removed only mechanically after it hardens.

Packaging

Kraft sacks of 25 kg

Storage

It must be stored unopened in its original packaging, in cool and dry conditions with a maximum 10-fold stacking.

Shelf Life

12 months from the date of production in the specified storage conditions and in unopened packaging.

eile KROUND 120 F



TECHNICAL SPECIFICATIONS

structure of the material: contains Corundum Aggregate and polymer modified Cement

Color: Natural, Red, Green

Compressive strength (28 days) : 70-80 N/mm²

The temperature of the ground to be applied: + 5 °C-+ 35 °C

Abrasion resistance: < 4 cm³/50 cm² (By Böhme method)

* Typical values: in the conditions of + 23 ° C, 50% relative humidity, it has been obtained as a result of tests performed in 4x4x16cm mortar prisms. Values may vary due to differences in site environment.



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EN 13813

Fire reaction class: A 1

Abrasion Resistance: 1636,7 mg (Taber)

Compressive strength: C70

Bending strength: F10

Safety Recommendations: Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

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