

POMEX FLOOR SURFACE HARDENER



Quartz-Silica Aggregate Surface Hardener for Industrial Floors

Description

A cement-based surface hardener with quartz-silica aggregates, applied to fresh concrete and screed surfaces to protect against impact and abrasion.

**Certified to TS EN 1504-2 TSE
EN 13813 CE.**

Areas of Usage

- *Suitable for applications in areas with medium to heavy traffic such as shipyards.
- *Used in indoor and outdoor environments like warehouses, garages, parking lots.
- *Ideal for industrial building floors, workshops, and mechanical wear-resistant areas where dusting is not desired on fresh concrete surfaces.

Features of Product

- ***POMEX SURFACE HARDENER** applied surface is highly resistant to impacts and abrasions.
- *Offers high impermeability.
- *Prevents concrete dusting.
- *Easy to apply on the substrate concrete.
- *Contains quartz aggregate with special gradation.

Application Procedure

Concrete pouring

After plaster strips are prepared, the concrete is poured. Concrete is compressed with using a vibrating screed. A wooden float can be used for final leveling. The carrier concrete of the field on which **Pomex Floor Surface Hardener** will be applied should be at least in C25 or 350 dose class.

Method of application

The concrete surface to be applied should not be too wet or too dry. If the concrete is too dry, it will not bond with the surface hardening concrete and will peel off in layers from the floor. If the application is done while the concrete is too wet, the surface hardener will separate, and the necessary strength and durability will not be provided on the surface. The application begins when footprints remain 0.5-1.5 cm deep when stepped on the concrete. The floor should be wet enough to absorb the moisture required by the surface hardener. During application, the material sacks are placed around the plaster strips according to the consumption quantity in the application area according to the consumption quantity for the application area.

It is evenly spread on the surface with a manual or mechanical spreading machine. The material spread on the surface absorbs the water from the concrete and changes color. The uniformly spread and color-changed material is compacted with a power trowel to integrate with the concrete. For applications over 5kg/m², first 2/3 of the material is spread and disc processing is done. Then the remaining 1/3 of the material is spread and polished with a disc. After the coarse polishing process, final polishing should be done with fine blade adjustments until the desired shine is achieved. Water should not be poured onto the surface during application.

Curing

After the application of the material is completed, to prevent rapid evaporation of hydration water, to prevent shrinkage cracks, and to ensure dustproofing, a curing material such as **eile Curing 105** or **eile Curing AST** should be applied to the surface. Expansion joints with a width of at least 4 mm and a depth of 1/3 of the concrete thickness should be created within max. 24 hours after concrete casting. For the joints, **eile Polyurethane Sealant** should be applied to prevent negative conditions such as cracking and dusting.

Consumption

3-8 kg/m² depending on the load and traffic conditions (min. 5 kg/m² for colored applications)

Important Points

- *Surface hardeners should be applied by expert applicators.
- Application should be done in the temperature range of +5°C to +35°C.
- It should not be applied on frozen, thawing, or surfaces at risk of freezing within 24 hours.

Cleaning of Tools

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

Package

25 kg craft bag

Storage

It should be stored in its original package in a cool and dry environment with a maximum 10-fold stacking.

Shelf Life

Under the specified storage conditions, the shelf life is 12 months from the date of manufacture.

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Technical Specifications

Structure of the Material contains: Quartz-Silica Aggregate and polymer modified special cement.

Colour: Natural (concrete-grey)

Compressive Strength: 50-70 N/mm² (28 days)

Temperature of application ground: + 5 °C to + 35 °C

Abrasion resistance: 6,5 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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Reaction to fire class: A 1

Abrasion Resistance: 1636.7 mg (Taber)

Compressive strength: C70

Bending strength: F10

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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