EN

Hardener CB 753 Corundum

Building Chemicals > Floor Coverings > Cement Based

Hardener CB 753 Corundum is a cement-based, single-component, ready-to-use concrete surface hardener made of corundum aggregate with specially adjusted gradation and chemical additives, providing abrasion resistance.

Fields of Application

- Factory floors, hangars, parking lots, and service stations
- Production halls, storage areas, supermarkets, and mechanical workshops
- Loading and unloading areas
- All building flooring and site concrete

Advantages

- Durable and economical
- Easy and practical to clean
- Provides high abrasion resistance
- Prevents surface dusting
- Offers optional color choices
- Covers surface-adjacent fibers in concrete

1 Preparation of Substrate

The concrete surface to be coated with Hardener CB 753 Corundum must have a minimum cement dosage of 300 kg/m^3. The thickness of the concrete where Hardener CB 753 Corundum will be applied should be at least 7 cm. The quality of the concrete on the floor should remain consistent.

2 Application

Before applying Hardener CB 753 Corundum, any water that may have formed on the freshly poured concrete should be removed. Apply Hardener CB 753 Corundum in two stages: 60% during the first application and 40% during the second application, with a consumption rate of 3-5 kg/m^2. During the broadcasting process, ensure that the surface is smooth. After moistening with water, it is recommended to use a low-speed power trowel to achieve a good finish. Do not add water to the material after application. Curing with Merks Resin/W RB 915 is preferred after application.

3 Consumption Amount

For an average thickness of 2 mm, the consumption rate is 3 kg/m^2. Usage exceeding 6 kg/m^2 should be preferred for surfaces expected to endure severe abrasion and where high performance is required. Such applications are effective only with concrete that has enhanced workability through special additives, a low water/cement ratio, and higher strength grades. High consumption rates on lower-grade concrete will not achieve the desired results.

4 Points to Consider

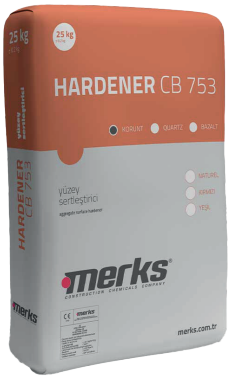
- In outdoor applications, the application area should be protected from wind, rain, and frost. Otherwise, skinning and cracking may occur on the surface during finishing.
- It is not recommended for use on more adhesive and less workable concrete.
- To prevent color variations, ensure that the water and cement content of the concrete used throughout the area is consistent.
- Additionally, maintain cleanliness and protect from dust to avoid color differences.
- In conditions of low relative humidity, blooming may occur on the surface after application.
- In conditions of high relative humidity, the finishing process may be extended due to slower curing.
- Curing is not recommended in cold weather.

5 Packaging

In 25 kg PE-reinforced kraft bags.

6 Storage Life

At least 12 months when kept in unopened packaging and protected from frost.



TECHNICAL DATAS

Material Composition	Corundum, Polymer-Modified Additives, Pigments, and Cement
Appearance	Gray, Red, Green
Bulk Density of Powder	~ 1,70 kg/l
Bulk Density of Wet Material	~ 2,00 kg/l
Application Temperature	(+5°C) - (+35°C)
Aggregate Hardness	9 on the Mohs Scale
Bending Strength	≥ 7 N/mm² (28 days)
Compressive Strength	≥ 70< N/mm² (28 days)
Pedestrian Traffic	1 day
Light Vehicle Traffic	7 days
Storage Life	At least 12 months when kept in unopened packaging and protected from frost.
Packaging	25 kg + 1.5 kg set in metal cans.