

HammerStrong KR



Cement-based, colored surface hardener containing corundum and special aggregates

Description

Cement-based, ready-to-use surface hardener containing corundum, special aggregates, pigments, and chemical additives, developed for floors subjected to medium and heavy loads.

Advantages

- Provides high abrasion resistance on the surface,
- Reduces surface dusting,
- Provides impact resistance and extends the service life of the surface,
- Ensures a smooth and homogeneous finish,
- Easy to apply,
- Available in different color options.

Application Areas

Used on floors in interior and exterior areas of residential, commercial, and industrial buildings; in garages, fuel stations, and parking lots; in storage and loading areas; in workshops, factories, production facilities, and shipyards; as well as in stores, offices, supermarkets, hangars, etc.

Surface Preparation

The structural concrete of the area where HammerStrong KR will be applied must be at least C25 or 350 kg/m³ cement content, and the surface of the fresh concrete must not be steel-troweled or power-troweled; it should be leveled with a wooden float.

Application

After concrete placement and screeding at a minimum thickness of 8 cm are completed, any excess surface water should be removed. Once the base concrete can be walked on, it should be allowed to harden until it is firm enough to leave a footprint 0.5–1.5 cm deep (approximately 45 minutes depending on ambient temperature).

HammerStrong KR should be broadcast uniformly over the entire surface at the recommended consumption rate, either by hand or using special spreading equipment, without leaving piles. To prevent aggregate segregation, the broadcasting should not be done from an excessive height. The material should be allowed to absorb moisture from the concrete and change color; once the color change occurs, the

surface hardener should be compacted with a power float to integrate it with the concrete.

Then blade troweling is carried out and continued until the desired surface gloss is achieved. Immediately after finishing the troweling operations, Hammerfast AK-100 curing compound should be applied; the process is completed by applying the curing compound at 0.2 kg/m².

Technical Properties

Color	Natural grey, red, and green
Powder density	1,8 kg/L
Classification	Principle 5 (PR): Physical resistance and surface improvement — 5.1 Coating application (C)
Abrasion resistance	< 2000 mg (TS 8103 EN ISO 5470-1)
Capillary water absorption and permeability	W < 0,1 kg/m ² ·h ^{0.5} (TS EN 1062-3)
Impact resistance	Class III (TS EN ISO 6272-1:2011)
Adhesion strength	≥ 1,5 N/mm ² with traffic load (TS EN 1542)
Reaction to fire class	A1 (EN 1348:2007)
Application temperature	Between +5 °C and +30 °C
Curing time	Variable depending on ambient temperature and concrete properties
Pedestrian traffic	1–2 days
Light vehicle traffic	7–10 days
Full curing time	28 days
Curing time	Variable depending on ambient temperature and concrete properties
Application temperature	Between +5 °C and +30 °C
Curing time	Variable depending on ambient temperature and concrete properties

Note: Values are determined at 23 ± 2°C temperature and 50 ± 5% relative humidity.

Consumption

Average consumption: 5 kg/m² per 1 m² area.

Note: For colored applications, 7 kg/m² is recommended; for areas requiring high strength, 9 kg/m² is recommended.

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Precautions

- Application should be carried out at temperatures between +5 °C and +30 °C.
- Avoid application in very humid or hot weather, under strong wind, or direct sunlight.
- Do not apply on frozen, thawing surfaces or on surfaces at risk of frost within 24 hours.
- To prevent rapid moisture loss after application, Hammerfast AK-100 curing compound may be applied. If no curing compound is used, lightly mist the surface with water and cover it with plastic sheeting or burlap.

Storage and Shelf Life

When stored in its original, unopened packaging in dry, moisture-free environments, protected from direct sunlight, and at temperatures between +10°C and +35°C, the shelf life is 12 months from the date of production. If not used, the packaging must be tightly sealed. A maximum of 2 pallets may be stacked on top of each other.

Safety Precautions

- Keep out of reach of children.
- Do not eat or swallow.
- Keep away from foodstuffs.
- Do not inhale directly or allow contact with skin.
- May cause allergic reactions.
- In case of eye contact, rinse thoroughly with plenty of water and consult a doctor.
- Use gloves, goggles, and protective clothing during application.
- Wash hands thoroughly with water after application.
- For detailed safety information, read the Material Safety Data Sheet (MSDS).

Packaging

Supplied in 25 kg kraft bags.
(1 Pallet = 60 bags = 1500 kg / Pallet size 80×120 cm, h = 100 cm)

Tool Cleaning

All tools used must be cleaned with water immediately after application.

Quality certificates

- TSE
- CE
- ISO 9001
- ISO 14001

