

HammerStrong Baskı Beton



Cement-based Colored Stamped Concrete Surface Hardener

Description

Cement-based surface hardener containing special mineral aggregates, high wear-resistant hardening components, and UV-resistant inorganic pigments. Applied to fresh concrete surfaces in stamped concrete systems using the broadcast method, it increases surface strength and provides decorative color.

Advantages

- Provides decorative appearance
- High abrasion and impact resistance
- Increases concrete surface strength
- Reduces dusting
- UV-resistant permanent color
- High freeze-thaw resistance
- Ensures smooth and uniform surface
- Maximum performance with system products
- Easy to apply
- Available in different colors.

Areas of Use

Indoor and outdoor applications including residential, commercial, and industrial building floors, garages, gas stations, parking lots, storage and loading areas, workshops, factories, production facilities, shipyards, stores, offices, supermarkets, hangars, etc.

- Stamped concrete floors
- Walkways and pavements
- Parking lots
- Gas stations
- Gardens and landscaping areas
- Terraces and courtyards
- Internal site roads
- Villas and residential complexes
- Decorative concrete surfaces
- Commercial and residential outdoor applications

Surface Preparation

- Sub-base preparation is critical for long-lasting and successful stamped concrete applications. For new surfaces, the load-bearing capacity must be checked, and soil improvement performed if necessary.
- For natural soil substrates, proper compaction is essential to achieve adequate load-bearing capacity.
- The sub-base layer should be spread according to project-specified thickness and compacted with suitable equipment. A plastic sheet is recommended to check moisture.
- The application area must be free of dust, oil, dirt, and loose particles. The surface should be sound, uniform, and at least C25 or 350 dose class concrete.
- Concrete class should be selected according to area size and intended use. Reinforcement is placed, followed by concrete pouring. Steel fiber-reinforced concrete may also be used. After placing concrete, the surface is leveled.
- After pouring, the surface is leveled and polished to obtain a smooth, homogeneous surface. Measures should be taken to prevent plastic shrinkage cracks.
- Expansion joints of at least 2 cm thickness should be placed between the concrete slab and surrounding walls or vertical elements to accommodate thermal and shrinkage movements. After application, gaps should be filled with elastic joint fillers.

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Application

- Broadcast application should be done after surface bleed water evaporates and the concrete is hard enough to leave a 0.5–1.5 cm footprint.
- Hammerstrong Stamped Concrete is broadcast at approximately 4–5 kg/m², evenly distributed, and worked into the surface with a steel trowel.
- After coloring with Hammerstrong Stamped Concrete, wait until the concrete reaches plastic consistency. Apply **Hammerfast RM-450** release powder at ~0.25 kg/m² over the surface.
- Place decorative stamped concrete molds without gaps and imprint patterns using a poulder tool. After 1–2 days, sweep off excess Hammerfast RM-450 and wash with pressurized water until the desired antique effect is achieved.
- Concrete joints should be cut within 1–3 days. After the washed surface dries, apply **Hammerfast CILA HPE** polish using a spray or roller for glossy finish.

Auxiliary Materials

- Hammerfast RM-450 : Release powder
- Hammerfast Cila HPE : Stamped concrete polish
- Hammerfast AK-100 : Acrylic curing agent

Consumption

Average: 4–5 kg/m²
For light colors: 6–7 kg/m²

Technical Properties

Color	Grey, red, green, yellow, anthracite grey, light brown, dark brown, mustard
Powder Density	1,70 kg/L
Class	Principle 5 (PR): Physical resistance and surface improvement-5.1 Coating Application (C)
Abrasion Resistance	< 3000 mg (TS 8103 EN ISO 5470-1)
Capillary Water Absorption & Permeability	W < 0,1 kg/m ² .h ^{0,5} (TS EN 1062-3)
Impact Resistance	Sınıf III (TS EN ISO 6272-1:2011)
Adhesion Strength	Trafik yükü ile birlikte ≥ 1,5 N/mm ² (TS EN 1542)
Flexural Strength	≥ 7 N/mm ²
Compressive Strength	≥ 50 N/mm ²
Reaction to Fire Class	A1 (EN 1348:2007)
Application Temperature	+5 °C ile +30 °C arası
Pedestrian Traffic	1-2 days
Light Vehicle Traffic	7-10 days
Full Cure	28 days

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

Precautions

- Apply between +5 °C and +30 °C
- Avoid application in very humid, hot, windy, or sunny conditions
- Do not apply on frozen, thawing, or surfaces at risk of freezing within 24 hours
- Hammerfast AK-100 curing agent can be applied to prevent rapid water loss; otherwise, lightly mist water and cover with foil or mesh cloth

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Cement-based Colored Stamped Concrete Surface Hardener

Storage and Shelf Life

12 months from production when stored in original, unopened packaging, in dry, moisture-free conditions, protected from direct sunlight, between +10 °C and +35 °C. Package must be tightly closed if not used. Maximum 2 pallets stacked.

Safety Precautions

- Keep out of reach of children.
- Do not swallow.
- Keep away from food.
- Do not inhale or allow contact with skin.
- May cause allergic reactions.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Use gloves, goggles, and protective clothing during application.
- Wash hands with plenty of water after application.
- For detailed safety information, read the Material Safety Data Sheet (MSDS)

Packaging

25 kg multi-layer kraft bags.
(1 Pallet = 60 bags = 1500 kg / Pallet sizes 80x120 cm, h=100 cm)

Tool Cleaning

All tools should be cleaned with water immediately after application

Quality certificates

- TSE
- CE
- ISO 9001
- ISO 14001

