

BB-400

STAMPED CONCRETE SURFACE HARDENER



DESCRIPTION

- Quartz aggregate, pigmented, special additive and cement based, easy-to-use and resistant to abrasion and dust, colour printed concrete surface hardener that is applied monolithically to the fresh concrete surface.

TECHNICAL DATA

Structure of the material	: Quartz aggregate
Colour	: Grey and other desired colours
Aggregate hardness	: 7 Mohs
Abrasion resistance	: $\leq 5.67 \text{ cm}^3/50 \text{ cm}^2$
Flexural strength	: $\geq 6 \text{ N/mm}^2$
Compressive strength	: $\geq 18 \text{ N/mm}^2$
Application temperature	: (+5°C) - (+30°C)
Fire reaction class	: A1

- These values are obtained under laboratory conditions ((23±2) °C temperature, 50% relative humidity) and may differ due to worksite conditions.
- MYFIX YILDIZ YAPI KİMYASALLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ is not responsible for the application errors that may arise if the application conditions and precautions outlined above are not followed for the purpose of the product.

INTENDED USES

- Interior and exterior surfaces,
- In car parks and garage areas,
- Where a decorative appearance is desired,
- Warehouses, hangars, workshops, loading and unloading areas,
- Metro stations, pavements and shopping centres with heavy pedestrian traffic,
- Used in areas where surface abrasion is intense.

PROPERTIES

- Provides surface abrasion resistance.
- Increases impact resistance.
- Creates resistance against dusting.
- Application is easy and economical. It increases the impermeability of concrete.
- Creates a colourful, antique and decorative surface.
- Provides high strength through the low water / cement ratio on the concrete surface.
- Prevents scaling that occurs as a result of freezing-thawing in concrete.
- Creates a monolithic structure with concrete after polishing by absorbing the water of the floor concrete it is applied to.

APPLICATION

- It is distributed on the concrete that is ready for **BB-400** application by sprinkling on the surface by hand or with suitable equipment.
- Before the sprinkling process, **BB-400** should be homogeneously distributed on the concrete surface at a ratio of 2/3 to the application area. It should not be left in lumps.
- The sprinkled material should be wetted evenly with the water present in the concrete and expected to change colour.
- In order to create a smooth floor, the material is fed into the concrete by power trowel (helicopter power trowel). The same procedures should be repeated for the remaining 1/3 of the material.
- After rough polishing, fine polishing should be started, and surface smoothness should be ensured until the desired gloss is reached with high-speed power trowel metal polishing blades.
- Immediately after polishing, **KA-400 Stamped concrete mould release agent and colourant** is sprinkled on the surface and the stamping process is started with moulds. After 1-2 days, the surface is first swept and then washed with pressurized water until the desired effect and appearance is obtained.
- After the concrete gains strength, expansion joints should be formed by cutting slabs within 1-3 days and these joints should be filled with suitable material.
- **BC-15 Concrete polishing agent** can be applied to get a bright appearance on the surface of BB-400 stamped concrete which has been cleaned and dried from the mould release agents. In cases where bright appearance is not desired, **ASB-150 Water based concrete polishing agent** can be applied.

SURFACE TREATMENT

- Before **BB-400** application, it must be waited until the ground is ready.
- Before the application, the monolithic screed should be selected and the casting process should be done.
- The floor concrete should be poured in the form of slabs and glazed with a wooden trowel.
- Care should be taken not to have too much water on the surface.
- When the concrete surface is pressed, 0.5-1.5 cm deep footprint is left, the concrete is ready for **BB-400** application.

Yıldız Yapı Kimyasalları San. ve Tic. Ltd. Şti.

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WARNINGS AND RECOMMENDATIONS

- During the application, work clothes, protective gloves and masks in accordance with the Occupational Health and Safety Rules should be used.
- May be harmful in contact with skin.
- The equipment used should be cleaned immediately with water. Drying material can only be removed mechanically.
- Protect the applied surface from wind, rain, frost, pedestrian traffic and high humidity until it dries completely.
- Do not apply when the surface and ambient temperature is lower than +5°C and higher than +35°C.
- Surface hardeners increase the impact and abrasion resistance of the applied surface. Since it does not contribute to increasing the mechanical strength of the applied concrete, it should be designed according to the loads to be applied on the concrete.
- Protect the surface from heavy traffic for 24 hours after application.
- Expansion joint cutting should be done as soon as possible, the day after the application.
- The indicated consumption amount is general information and may differ due to application conditions and surface features.

QUALITY CERTIFICATES

- In accordance with TS EN 1504-2 standard.

 2163 YILDIZ YAPI KİMYASALLARI SAN. ve TİC. LTD. ŞTİ. İstanbul Mermerciler Küçük San. Sit. 18. Cad. No: 22 Köşeler Köyü - Dilovası / KOCAELİ	
20 DoP number: 03.PB 1504-2.020	
2163-CPR-0560-7 TS EN 1504-2:2005 BB-400 / STAMPED CONCRETE SURFACE HARDENER Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and conformity assessment - Part 2: Surface protection systems for concrete Principle 5 (PR): Physical resistance / surface improvement, Method 5.1: Coating Application [C]	
Abrasion resistance	: ≤1000 mm ³
Capillary water absorption and water permeability	: W<0.1 kg/m ² .h ^{0.5}
Shock resistance	: Class II: ≥ 10 Nm
Adhesion strength through pull-off test	: Without a traffic load ≥ 0.8 N/mm ²
Fire reaction class	: A1 [Organic matter content <1%]
Our products do not contain hazardous substances for health and the environment.	

PACKAGING

- 25 kg Kraft bag (Pallet 64 bag, 1600 kg)

CONSUMPTION

- 3 - 5 kg/m² depending on the purpose of use and traffic load.

SHELF LIFE

- Shelf life of an unopened package stored in a dry, cool place is 12 months from the date of manufacture.

COMPLEMENTARY PRODUCT(S):

- **KA-400** Stamped concrete mould release agent and colourant
- **BC-15** Concrete polishing agent
- **ASB-150** Water based concrete polishing agent

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