



## Corundum Aggregated Surface Hardener

### Product Description

It is an abrasion resistant surface hardener consisting of special type cement, hard corundum aggregates, chemical additives, special coloring pigment and polymer additives applied monolithically to fresh concrete surfaces.

### Areas of Use

- It is applied on fresh concrete surfaces that are not required to do dusting.
- On surfaces that require high mechanical wear resistance.

### Application Surfaces

#### On indoor and outdoor floors;

- Warehouses,
- Workshops,
- Parking areas,
- Service stations,
- Industrial building floors,
- Supermarkets,
- Factories,
- Businesses,
- Housing.

### Advantages

- Ability to obtain smooth, bright and homogeneous surfaces.
- Prevents wear against mechanical loads.
- Increases resistance against impacts.
- Delays surface dust.
- It allows easy application to the bearing concrete.
- 3 different color options are available.

### Preparation of the Surface

- The carrier concrete of the area where Newkim Corundum Aggregated Surface Hardener will be applied must be at least C25 class.



- The surface of the fresh concrete to be applied should not be polished with a steel trowel or tray polish, it should be smoothed with a wooden trowel.

### Preparation of Mortar

- It should be waited until it will be settled so that a 3mm deep footprint is left on the bearing concrete.
- According to plaster slip width and consumption amounts, Corundum Aggregated Surface Hardener bags should be lined on the edges of the plaster slip.
- 2/3 of the surface hardener to be used on the whole surface is distributed by sprinkling method.
- The material should not be left on the surface in piles. A homogeneous distribution should be provided as much as possible.
- In order not to decompose the aggregates in the product, sprinkling should not be done over long distances. This can be done by hand or with special sprinkling equipment.
- Sprinkled material and concrete should be expected to change color by drawing water.
- The surface of the concrete to be applied should be wet enough that the Corundum Aggregated Surface Hardener can absorb the moisture it needs.
- In cases where the concrete surface is more than necessary, Corundum Aggregated Surface Hardener will disappear in the fresh concrete and lose its effectiveness. If the surface is dry more than necessary, the product will not be able to get the hydration water it needs, so it will not reach the desired strengths.
- It is fed to the concrete with surface hardener disc burnishing, which is uniformly sprinkled and changes color by drawing water. The remaining 1/3 amount is sprinkled on the surface of fresh concrete and burnished with disc burnishing.
- After finishing, the blade finishing is started and the process continues until the desired gloss is achieved.

### Application Requirements

- The ambient temperature should be between +5 °C and +35 °C.
- Avoid application in very humid and / or very hot weather, under strong wind or sun.
- It should not be applied on surfaces that are in danger of frost within 24 hours.

### Application Tools

- Spreading equipment, trowel tray, trowel blade, helicopter.

### Warnings and Recommendations

- Curing material SBR-404 Curing Fluid should be applied in order not to lose the water of the surface quickly after the application.
- Water should not be thrown on the material during application.
- No materials (lime, cement, gypsum, etc.) should be added to the prepared mortar.
- Expired mortars should not be mixed with water or dry mortar and used again.
- Application should not be made on very hot or frozen surfaces that have been exposed to the sun for a long time.
- For the durability of the product, the surface should be watered periodically within 7 days after application (unless curing fluid is used).
- Do not go beyond the specified application surface and instructions for use.
- Do not breathe, wash with plenty of water in contact with eyes, seek medical advice if necessary.
- Since it is cement based material, gloves should be used during application.
- The packaged product should not be stored in humid environments.

### Technical Information

Technical Information is relative to 55% ( $\pm 5$  °C) relative humidity environment at 23 °C ( $\pm 2$  °C).

Appearance	Gray, red, green color
Powder Density	1.65-1.75 kg / m <sup>3</sup>
Impact Strength (LA)	30-40% weight loss
Application Temperature	Between + 5 °C and + 35 °C
Wear Resistance	7 cm <sup>3</sup> / 50 cm <sup>2</sup> with Böhme method
Hardness	7 Mohs.
Compressive Strength	> 65 N /mm <sup>2</sup>
Bending Resistance	> 9 N/mm <sup>2</sup>



#### Consumption

5-6 kg / m<sup>2</sup> for light and medium loads  
7-8 kg / m<sup>2</sup> for medium and heavy loads



#### Packaging

25 kg kraft bag



#### Shelf Life

1 year from the date of production in drought and dry environments



#### Color

Gray  
Red  
Green