

## FH QUARTZ

### Quartz Aggregate Concrete Surface Hardener

#### Description

Cement based, quartz aggregate, ready to use ground hardener that applied as a dry powder form to the surface of fresh concrete.

#### Fields of Application

- On light, medium and heavy duty areas.
- On industrial floors, factories, shipyards,
- Loading bays, warehouses,
- On garages, car parks, car wash areas.

#### Features and Benefits

- Provides impact and abrasion resistance, non-dusting property and protection to wearing that caused from medium and heavy duties on concrete surface.
- Easy to apply on fresh concrete.
- Resistant to abrasion 2-4 times more than normal concrete.
- High efflorescent resistance.
- Excellent chemical resistance.

#### Technical Data

Content	Modified polymer, quartz aggregate and special cement mix
Color	Natural Grey / Red / Green
Appearance	Powder
Compressive Strength	65-70 N/mm <sup>2</sup>
Abrasion Strength	0-9 cm <sup>3</sup> /50 cm <sup>2</sup>
<i>Böhme Method</i>	<i>6,20 cm<sup>3</sup> / 50 cm<sup>2</sup></i>
Flexural Strength	5-15 N/mm <sup>2</sup>
Application Temperature	+5°C to +35°C
HS Code	3816.00.00

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### Application Procedure

#### Preparation of Substrate

Surface must be roughened before the application. Application surface must be damped. FH QUARTZ is ideally applied to a surface which is neither too wet nor too dry. EPOX 311 or LATEX is recommended to applied for increasing adhesion between the old and new concretes. Surface hardener materials only improve impact and abrasion resistance on applied surfaces. They do not affect concrete mechanical strength, for this reason concretes always designed for the load to be applied on it. If FH QUARTZ is going to be applied on a screed, minimum thickness of screed must be above 7 cm, water / cement ratio must be above 0,45 and concrete class must be minimum C25.

#### Application Method

Before the application, 5x5 cm rectangular shaped concrete should be taken from the joint borders. This space must be filled **FH QUARTZ** with diluted water by using trowel. This method prevents the joint borders against breaking under heavy duties. Spreading procedure shall be initiated depending on the environment and weather conditions once a setting not sinking when stepped on the concrete however leaving a 0,5-1,5 cm deep foot print is achieved. Spread the 2/3 of the **FH QUARTZ** onto the concrete homogeneously then wait to material absorb moisture from the surface and apparent dark color and ensure integrated material with the surface by polishing. After the first application, spread the remaining 1/3 of the material onto the concrete and continue polishing vertically against the polishing in the first application. Keep polishing the last layer until the desired smoothness is achieved by adjusting the polish and blade angle. Rapid setting shall be prevented by means of spraying water gently and covering the back with folio or cure the surface with **CURE P**, **CURE A** or **CURE R** by cutting the cracked control grouts from required points.

### Consumption

4-8 kg/m<sup>2</sup> according to the intended use. Min. 7 kg/m<sup>2</sup> for light color applications.

### Packaging

25 kg kraft bag

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### Shelf Life

12 months in original, unopened package.

### Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

### Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

### Cautions / Limitations

- **FH QUARTZ** does not affect concrete mechanical strength, for this reason concretes always designed for the load to be applied on it.
- If **FH QUARTZ** is applied on a screed, minimum thickness of screed must be above 7 cm, water / cement ratio must be above 0,45 and concrete class must be minimum C25.
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +35°C.
- Avoid heavy traffic for 24 hours.

### Health and Safety

**Warning!** Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

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Keep container closed when not in use. Keep out of the reach of children.

**Limited Warranty:** This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.