

## MINERALS HARD®

### PRODUCT

**Minerals Hard®** is a selected compound of granulometric quartz sand and diabase, analyzed and rigorously tested in laboratories for use in sprinkler systems.

**The average consumption of the aggregate is:**  
3 kg/m<sup>2</sup> to 5 kg/m<sup>2</sup>, able to be used pure or with cement.

If used with cement you should use 1 kg to 1.5 kg of cement at the time of application. For compatibility it is recommended that you use the same type of cement which was used in the concrete.

### Where to Use

Use in industrial floors where a floor is required with high resistance to abrasion caused by dragging and rolling of heavy loads, heavy traffic and rigid wheeled carts and impacts of great intensity.

### Benefits

- Low cost of installation and maintenance
- High abrasion resistance
- High impact resistance
- Increases useful life of the floor
- Prepares the surface to receive any type of coat

### Equipment for Application

Can be applied mechanically with a spreader machine or manually with the help of a bridge constructed locally for this purpose so that the employee can stay as close as possible to the concrete and the product can be distributed more uniformly over it.

Do not throw the material with shovels, as that can cause localized concentrations.

### Application on Fresh Concrete

It should be applied on the concrete slab and vibrated, waiting for the disappearance of the exudation water, and then use a wooden plank to smooth the concrete surfaces, until it forms a layer of 2 to 3 mm.

For best performance in the finish, use a machine with single or double disk flotation and then use the same blade until obtaining the desired finish.

The coating formed corresponds to the classification of the group **"A" Standard EB2100/NBR-11801**, highly qualified for severe abrasion demands with several advantages: twice the high-performance of concrete commonly used.

### Concrete Used (Recommended)

Minimum 25 MPa  
Yield of cement: 330 kg/m<sup>3</sup>  
Slump: 8 +/- 1  
Incorporation of Air: < 3 %

### Cautions

During the finishing process, water must not be added, because if you add water, you can cause peeling of the surface and stains on the floor.

### Guarantee

The warranty is given about the product alone, according to the above standard. Any problems caused by errors in handling are not covered, since we are not responsible for circumstances beyond our control.

### CLEANLINESS AND SAFETY

Users should use safety glasses and rubber gloves and mask. Direct contact with the skin should be avoided (can cause irritation). In case of contact with the skin or eyes, wash immediately with abundant water and consult a doctor.

Keep out of the reach of children and animals.

### STORAGE

Should be stored in a dry location and covered.

### PACKAGE

40 kg sack.

**Validity:** Indefinite if stored correctly.

### Reis e Reis Indústria e Comércio Ltda

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*Our technical advice concerning the application of the product is made verbally, in writing and through demonstration depending on the interest of the customer.*

*It should be noted that the application of the product is a precision process and when it is not applied by Reis e Reis, the company disclaims any responsibility; therefore, the responsibility is that of the customer. Regarding the storage and use of the product, any resulting change in its properties will be the complete responsibility of the customer.*

*The liability of Reis e Reis will be limited to any damage or loss in value of the goods supplied by the company and used by the customer. We guarantee the unquestionable quality of our products in accordance with our terms of sale and supply.*

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