

## Corundum Based Heavy Duty Floor Hardener (metal free)

### PRODUCT DESCRIPTION

**İNKA-HZS/c** is a floor hardener with enhanced abrasion and wear resistance, blended with corundum, high quality quartz aggregates and chemicals, packed with special color options.

### AREAS OF USE

Indoor and outdoor applications for the production of industrial floors, parking areas, production areas, stock areas, hangars, supermarkets and such similar surfaces which should be dustfree and abrasion and wear resistant.

### ADVANTAGES

- impact resistant,
- Perfect resistance to wear and tear,
- Durable,
- Dust free,
- Easily applied and cleaned,
- Cost effective,
- Resistant to oils,
- Optional colors.

### TECHNICAL DATA

- **Appearance:** natural grey, red, green powder (optional)
- **Unit Weight of Fresh Mortar:** ~ 1,5 kg/lit (@ 20°C)
- **Abrasion Resistance:** 3000 mg max.  
(TS 8103 EN ISO 5470-1:2002 -TABER-)
- **Curing Time:** Pedestrian Traffic: 1 day  
Light Vehicle Traffic: 7 days  
Full Curing Period: 28 days
- **Storage:** 6 months when kept in a dry and closed area stacked in loads of maximum 5 bags, away from freezing temperatures
- **Packaging:** 25 kg craft paper bags
- **Standard:**



TSE EN 1504-2 / 10.04.2008

-Principle 5-

### SURFACE PREPARATION & APPLICATION

The properties of concrete surface to be covered with **İNKA-HZS/c** should meet the minimum requirements stated below:

Cement : Min. 300 - 350 kg/ m<sup>3</sup>  
water/cement : Max. 0,45

The concrete thickness should be at least 15 cm.

The dry shake is spread with a laser screed automatic sprinkler.

Or;

Manual application; **İNKA-HZS/c** should be applied onto newly laid concrete after it is vibrated, compacted and floated. Excess surface water should be removed. 2/3rd's of the dry shake should be sprinkled onto the concrete -allowing it to absorb moisture from the surface- just after the surface water has evaporated and the concrete surface is able to support the weight of the workers and machinery.

When walked on, the surface should not sink in more than 3 mm. When the powder appears damp or wet enough, it should be worked into concrete surface with a power float. The remaining 1/3rd is then sprinkled evenly and the same procedure should be carried out.

- As soon as the concrete setting and/or consistency allows, corrections should be made with a slow speed power trowel blade. Final corrections can be made at high speeds.
- Water should not be added on **İNKA-HZS/c** applied surfaces. This will harm the surface quality.

### CURING

In order to prevent rapid moisture loss after the application, a curing membrane **İNKA-CR** or **İNKA-CS** should be used. The curing compound should be applied right after the application of the floor hardener or within 6 to 12 hours depending on the environmental temperature and surface condition. The curing compound's consumption is between 100 to 250 gr per m<sup>2</sup>.

Joint cutting should not start before curing compound fully cures as it will be very hard for the cured product (residues) to be removed when mixed with the slurry created by the joint cutting equipment blade's cooling water.

### CONSUMPTION

4 - 5 kg/m<sup>2</sup> for surfaces which are subjected to light loads.  
> 6 kg/m<sup>2</sup> for heavy duty surfaces.

Applications above 6 kg/m<sup>2</sup> should only be made on concrete surfaces that are expected to endure increased amounts of wear and tear. In such cases, the quality of the concrete should be improved by increasing the cement dosage and special workability enhancing chemicals should be used for best results. Excessive use of this product on concrete with reduced cement content, will not give the expected results.

### SURFACE QUALITY

- In order to acquire an homogenous surface, concrete quality should be fixed at a certain w/c ratio. The fresh concrete should be well placed and compacted.
- Best results would be reached at slumps of 80 - 100 mm.
- A vibrating float should be used when leveling the fresh concrete and the surface finishing should be made with a wooden float as soon as the consistency of the fresh concrete allows it.
- Water should not be added on **İNKA-HZS/c** applied surfaces in order to keep the surface homogeneity.





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### ATTENTION

- For outside applications, the area should be protected against direct sunlight, wind, rain and freezing temperatures, otherwise cracks may form during floating.
- Surface and environmental temperature;  
Min. + 5°C  
Max. + 35°C
- Curing compound should be fully cured before the cutting of joints.
- Flyash containing concrete designs should not be preferred as the design is sticky by nature and has low workability.
- Florescence may appear on surface due to low relative humidity.
- The remaining product should be kept closed and airtight in its original packaging.
- Tools must be cleaned with water before residues fully cure.

### HEALTH & SAFETY

- Contains cement. In case of contact with skin and eyes, wash with plenty of water.
- Protective mask should be worn during the preparation of the product.

### TECHNICAL SERVICES

Our technical support team is ready to answer all your questions concerning our product line.

For additional information, please contact our headquarters.

Material Safety Data Sheet of this product can be obtained from [info@inka.com](mailto:info@inka.com) or from our regional sales representatives.

