

# MC-Hardener 309

## High load industrial floor hardener.

- PRODUCT PROPERTIES:**
- Floor hardener containing granular, super hard, dry shake aggregate.
  - Contains carefully selected hard metallic aggregate, with optimal particle size, good abrasion resistance.
  - Increases impact resistance.
  - Increases grease resistance.
  - Easy to apply by dry shake method.

- AREAS OF APPLICATION:**
- Reinforcement for fresh concrete floor surface, increase high mechanical abrasion resistance, reduce dust formation, increase grease resistance, applied to floors such as:
    - Warehouse.
    - Factory.
    - Parking lot.
    - Service station, car showroom, etc...

- APPLICATION NOTES:**
- **Substrate preparation:** As soon as the concrete surface has reached the appropriate plasticity, but before starting the setting process, smooth the freshly poured concrete surface and level the floor surface with a compactor.
  - **Application:**
    - **MC-Hardener 309** is hand sprinkled onto wet concrete and divided into 2 layers. The 1<sup>st</sup> layer is about 2/3 of the material and the rest for the 2<sup>nd</sup> layer.
    - As soon as the concrete has evaporated, smooth the surface and sprinkle the first layer of **MC-Hardener 309**. Pay attention to sprinkle areas near doors, walls and columns... in these areas the concrete will dry faster.
    - When the surface of **MC-Hardener 309** is dark due to moisture absorption from the concrete surface and the concrete is hard enough to enter, use the trowel to rub the surface of **MC-Hardener 309** at low speed with minimal blade tilt.
    - After applying the 1<sup>st</sup> layer, sprinkle the 2<sup>nd</sup> layer immediately while the surface is still damp. Use a trowel to smooth the surface with high speed.
    - Pay attention to adjusting the tilt of the trowel to create a smooth, glossy surface for the concrete surface.
  - **Curing:** The surface of **MC-Hardener 309** after finishing rubbing must be cured immediately to avoid excessive water loss leading to surface cracking. Protect the sprinkled surface from walking and moving on.
  - **Cleaning:** Use clean water to clean tools and equipment immediately after construction. When the product is solidified, it can only be cleaned by mechanical means.
  - **Safety information:** Do not pour into water sources, sewers,... **MC-Hardener 309** is an alkaline cement-based product, avoid contact with skin. When applying, it is necessary to wear gloves, goggles, and masks. If material gets into eyes, rinse immediately with clean water and seek medical attention.



BE SURE. BUILD SURE.

#### TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Consumption:			
• Light load	kg/m <sup>2</sup>	4	
• Average load		5	
• Heavy load		6	
Hardness in Mohs	mPa-s	7 - 9	Slitting on steel
Waiting time:			
• For walking	days	2 - 3	
• For light load		7 - 10	
• For heavy load		28	

*\*Specifications are based on laboratory conditions (21°C ± 2 and 50% RH) and are subject to change under actual application conditions.*

#### PRODUCT CHARACTERISTICS:

<b>Color</b>	Grey.
<b>Form</b>	Powder.
<b>Packaging</b>	25kg/ bag.
<b>Storage</b>	Store in a cool, dry place at a temperature of 10-30°C, covered and ventilated.
<b>Life time</b>	Minimum 08 months if stored properly in unopened original packaging.

**Note:** The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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