

Smartcare Floor Hardener

Transparent concrete sealer for surface hardening and dustproofing

Description

SmartCare floor hardener is a clear liquid composed of sodium silicate, designed for application on concrete surfaces. This solution penetrates the concrete, altering its molecular structure and enhancing the hardness of the surface.

Uses

As a surface hardener and dust sealer in

- Factories
- Industrial floors
- Ware houses
- Car Parks
- Reservoirs
- Tanks etc.

Characteristics

- Economical
- Highly durable
- Reduces chemical attack from oils and greases
- Easy to apply
- Used for both old and new floors

Packing

20 Liters

Coverage

Coats	COVERAGE
3	4 - 5 m ² / Ltr
2	7.5 m ² / Ltr
1	10 m ² / Ltr

Methodology

Surface Preparation:

- The substrate must be mechanically sound, free of loose particles, grease, oil, paint, wax and other deleterious material or surface contamination and should be sufficiently dry.
- New concrete floors must be allowed to cure for 14 days prior to treatment.
- Oil and grease surfaces shall be treated with a suitable chemical de-greaser, washed and dried before applying Smartcare Floor Hardener

Application

- Apply the Smartcare Surface Hardener at 0.1 ltr/m² using a soft broom or brush and let the solution absorbed into the concrete for up to 2 hours.
- Remove any non-absorbed solution as it may result in formation of weak and glossy surface once dry.
- Apply two to three coats depending on the substrate condition and requirement. The coat intervals shall be 24 hours ensuring that the floor is dry and any non-absorbed solution is removed.
- For well troweled surfaces & power floated surfaces, one coat application will be sufficient.
- If a polish finish is required, grind the surface with 800 grit polish pads to open the surface pore to improve the permeability. Avoid excessive grinding to avoid any scratches.
- Clean the surface and apply Smartcare Floor Hardener as stated above standard application method once the surface is fully dry in about 24 hours.
- On the second day, grind the substrate 1-2 times with grid 1500-3000 depending on the substrate condition.
- Smartcare Floor hardener can be applied until no penetration appears while grinding.
- When the required smoothness is achieved, clean the surface. Avoid excessive polishing.

Clean up

- Clean all the tools and equipment with clean water. Cured material can only be removed mechanically

Shelf Life

SmartCare Floor Hardner shelf life is 12 months, if stored properly.

Storage Condition

SmartCare Floor Hardner should be stored in dry and unopened conditions.

Safety Precautions

General Safety: No smoking during use. Keep containers tightly sealed when not in use. In case of fire, extinguish with CO₂, foam, carbon dioxide, or dry chemicals.

Personal Protection: Avoid contact with skin and eyes. Use appropriate protective clothing such as overalls, gloves, and safety goggles. Apply barrier cream where necessary.

Ventilation: Ensure adequate ventilation during application. Do not inhale vapors or spray.

Flammability: Product is flammable. Keep away from heat, sparks, and open flames. Avoid static discharge. Do not smoke during handling.

First Aid Measures:

Eyes: In case of contact, flush immediately with warm water and seek medical attention.

Skin: Wash thoroughly with soap and water or use

an approved industrial cleaner. Avoid solvents.

Inhalation: Move the affected person to fresh air, loosen clothing, and keep at rest.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Additional Information: Refer to the Material Safety Data Sheet (MSDS) for comprehensive health and safety guidance.

Disclaimer: The information provided is based on our experience and research. While we guarantee product quality, we have no control over site conditions or application methods. Performance may vary, and we accept no liability for issues arising from improper use. Always conduct on-site testing for suitability before full-scale application

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