

ISONEM[®] LITHIUM HARDENER



Floor Coating

Lithium Silicate Based Concrete Chemical Hardener

ISONEM LITHIUM HARDENER is Nano Lithium Surface Treatment which penetrates via chemically reacts with concrete floors, thicken it up and protect it and it forms breathable, abrasion resistant and extremely hard, clean, intense, resistant inorganic surface layer. It is the perfect solution for concrete floors where long-term protection against heavy wear, bad use, moisture, dirt accumulation, alkaline and efflorescane (salt residue) is desired. ISONEM LITHIUM HARDENER is colorless, odorless, water-based, suitable for VOC (volatile organic compounds) conditions and its use is environmentally safe. It is a single component based on lithium silicate.

IMPORTANT BENEFITS / ADVANTAGES

It penetrates deeply into concrete capillaries and forms a permanent bond with the concrete via reacting with free lime. It creates a breathable, dense and wear-resistant protective surface. It creates a stronger, more impermeable, non-dusting, non-staining and deteriorating surface treatment with a better looking (satin-gloss) finish. Reduces maintenance, cleaning, and expensive repair costs. The molecular size of lithium allows for deeper penetration and more permanent protection. Insoluble / Non-expandable Lithium does not absorb water and does not cause the floor to condensate. Easy single layer application. It is not necessary to wash with water. It can be applied to fresh, new applied concrete.

TECHNICAL SPECIFICATIONS

- **Appearance** : Clean, colorless, water-based solution
- **Density [25°C, g/mL]** : 0.90 ± 0.10
- **PH [25°C]** : 11.0 - 13.0
- **Depth of penetration (H, mm)** : ≥ 10 CLASS II
- **Drying rate for hydrophobic impregnation (H, %)** : > 10 CLASS II
- **Flashpoint [°C]** : N / A (Not applicable)
- **Slip Resistance** : Does not change the friction coefficient of the floor
- **Depth of Surface Penetration** : 2 - 8 mm
- **Drying Time** : 1 - 2 Hours

APPLICATION INFORMATION

- It is applied on new or old concrete with spray, roller or brush, and at least 5 min. after waiting, the surface is wiped/polished.
- Always test all concrete surfaces for suitability and the desired results.
- It is a structural product. It does not stay on the surface after it has dried on the concrete surface. It is not a visual product. ISONEM LIQUID GLASS can be used if visibility and brightness are desired.

MAINTENANCE : It is recommended for routine cleaning, washing and mechanical scrubbing of soils with detergent and mild cleaners or water. DO NOT use acid cleaners.

AREAS OF USE

Manufacturing plants, storage facilities, distribution centers, food processing plants, textile factories, water treatment plants, pharmaceutical industry, electronics, cold storage/freezers, beverage processing, chemical processing, multi-storey car parks, aircraft hangars, parking places, transportation terminals, vehicle maintenance areas, office buildings, cafeterias and restaurants, shopping centers, schools, educational facilities, chemical areas, cold stores, laboratories, soil stabilization and so on.

CONSUMPTION : 100 - 200 gr/m² 25 m² /Package

PACKAGE : 20 L PE DRUMS

STORAGE : 24 months in original, unopened package, cool and dry environment.

IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. For professional applications.

General Features



Mechanical Resistance



B fl S1 Fire Class



Fast Drying



Application Conditions and Risks

Things to consider during and after the application

The application surfaces must be clean and free from dirt, oil, rust etc..

Applicable temperature

Between +5 and +35°C

ISONEM products for surface preparation

X

Application requirement

For professional applications.



Surface Floor	Concrete	Marble, Granite	Raw wood	Tile & Ceramic	Membrane, Shingle etc.	Steel & Metal
Application	Horizontal	X	X	X	X	X
Surface Humidity	Dry	X	X	X	X	X
Application Tools	Roller (synthetic epoxy), brush, spray, concrete grinding/polishing machine	X	X	X	X	X
Primer Usage	X	X	X	X	X	X
Primer Conspt	X	X	X	X	X	X
Product Usage	1 Layer	X	X	X	X	X
Product Conspt	100 - 200 g/m ²	X	X	X	X	X
Betw. Two Coats	X	X	X	X	X	X
Application	1 Day	X	X	X	X	X



The information given in this technical data sheet has been prepared according to our knowledge, experiment results, and experiences. The correct and successful implementation of our products is completely beyond our control and responsibility. For this reason, our responsibility is limited to the quality of our product only, and this manual overrides all previous technical statements, descriptions and label information.

" Our products are not classified by Biocidal Products Regulation "