

## Technical Data Sheet

# Densi-Hard<sup>®</sup> LS+

## Liquid Densifier, Sealer & Dustproofer for Concrete



### Description

Densi-Hard LS+ is a specially formulated Lithium based hardener, strengthener and densifier for concrete and terrazzo floors. It helps achieve a hard surface that is also easy to grind and polish. Densi-Hard LS+ penetrates and chemically reacts within the concrete surface, producing extremely hard and dense calcium silicate hydrate (CSH) in the pores. This makes the concrete surface hard and durable. This environmentally friendly treatment reduces efflorescence, improves overall abrasion resistance and reduces dusting.



### Areas of Application

- Concrete floors interior and exterior
- Polished concrete floors
- Commercial and retail floors
- Warehouse floors
- Industrial floors
- Food storage areas
- Manufacturing plants
- Distribution centers
- Transportation terminals
- Institutional floors
- Health care facilities



### Shelf life

2 years in original unopened container.



### Instructions for Use with Polishing

1. Clean the surface properly to check the condition of the floor.
2. Start grinding the concrete with 36 or 60 grit depending upon your floor and grind up to 200 grit resin bond. Grinding flattens the surface and opens up the surface ensuring better penetration.
3. Use a low pressure, high volume sprayer to apply Densi-Hard LS+ so as to form a glistening sheen. Apply enough Densi-Hard LS+ to keep the surface wet for 20 minutes. If applying by hand, spread the sprayed material with a lambswool roller once or twice. After 20 minutes, remove the excess material. Let the material cure for 24 hours for best results.
4. Then proceed with 400 grit, 800 grit and go up to 1500 grit as required.
5. Remove all polishing dust and debris using a scrubbing machine. Burnish with a 3000 grit Diamond Pad for high gloss as required.

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### Instructions for Use without Polishing

#### Preparation:

The substrate shall be thoroughly cleaned of all foreign materials such as bond breakers, curing agents, form release oils, dust, and construction laitance by light mechanical grinding if required. Clean the surface with a high pH detergent and wash thoroughly. The surface shall be saturated with water and later excess water has to be removed.

#### Application:

A low pressure, high volume sprayer shall be used to apply Nitoflor LH so as to form a glistening sheen and to ensure complete saturation of the surface. Enough Nitoflor LH shall be applied to keep the surface wet for at least 20 minutes. If applying by hand, spread the sprayed material with a lambswool roller once or twice and then stop spreading. If spread excessively, it tends to dry in streaks. After 20 minutes, the excess material shall be removed and the surface shall be allowed to dry for 1 - 2 hrs. The floor is ready to use after the surface is dry. A light lithium residue may form on the surface after the floor is dry. This is the excess Nitoflor LH liquid floor hardener which was not absorbed and can be removed by a stiff broom or power sweeper. For an immediate shine, Nitoflor LH shall be allowed to dry overnight and then polished with a high speed buffer equipped with a black pad, followed by a red pad.



### Precautions

1. Protect Densi-Hard LS+ from freezing. In the event of freezing, thaw and stir or agitate before using.
2. Protect metal, glass, wood, paint or brick from contact with Densi-Hard LS+. If accidentally over sprayed on these surfaces, wash surface with clean water immediately.
3. Allow the product to dry 4 to 6 hours at 21° C before exposure to foot traffic or rain.
4. In all cases, consult the Safety Data Sheet before use
5. Store in a cool and dry place.



### Coverage

Coverage: The coverage is determined by the texture and porosity of the floor. It may be anywhere between 40-150 sq. ft. per litre. A floor that has been previously hardened will require less material than a fresh floor.



### Color

Translucent

**MADE IN INDIA**

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### Features

- Densifies
- Dustproofs
- Seals
- Increases abrasion resistance
- Reduces water penetration
- Easy maintenance
- Water based
- Odourless
- Low VOC
- Eligible for LEED points



### Packaging

5 L Jerry can  
10 L Jerry can  
20 L Jerry can  
209 L Barrel



### Maintenance

Floors treated with Densi-Hard LS+ benefit from good routine maintenance. Regular scrubbing with Surie Porex pH Neutral Floor Cleaner is recommended and maintains the gloss. Oils and acids should be removed quickly and properly to prevent damage.



### Clean-Up

Clean brushes, tools equipment and flush sprayer with potable water immediately after use.



### Disclaimer

The information above reflects our latest technical know-how and is the outcome of ongoing laboratory research and testing. However, some factors are beyond our control. It is essential to integrate our suggestions with your own on-site preliminary tests and check. Surie Porex accepts no liability for improper use of its products.