

MADE IN INDIA

Technical Data Sheet

Densi-Hard[®] 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.



Technical Data

Appearance	Clear to cloudy liquid
Chemical Base	Lithium Silicate
Viscosity	Water like
pH	11-12
Specific Gravity @ 27°C	Approx 1.08-1.09 gm/cc
Solid Content	11 to 12%
Surface Breathability	Breathable
Skid Resistance ASTM E 303	Good
Application	Densification, Hardener and Sealer
VOC Content	< 5 g/l
Freeze Point	32°F (0°C)



Packaging

- 1L Can
- 5 L Jerry can
- 10 L Jerry can
- 20 L Jerry can
- 209 L Barrel



Features

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

MADE IN INDIA

Technical Data Sheet



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 lambs wool 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.



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 latency 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 Densi-Hard[®] LS+ so as to form a glistening sheen and to ensure complete saturation of the surface. Enough Densi-Hard[®] LS+ shall be applied to keep the surface wet for at least 20 minutes. If applying by hand, spread the sprayed material with a lambs wool 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 Densi-Hard[®] LS+ liquid floor hardener which was not absorbed and can be removed by a stiff broom or power sweeper. For an immediate shine, Densi-Hard[®] LS+ shall be allowed to dry overnight and then polished with a high speed buffer equipped with a black pad, followed by a red pad.

MADE IN INDIA

Technical Data Sheet



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

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



Maintenance

Floors treated with Densi-Hard[®] LS+ benefit from good routine maintenance. Regular scrubbing with Surie Polex 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.



Legal Notes

The information and in particular, the recommendations relating to the application and end-use of Surie Polex products, are given in good faith based on Surie Polex's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Surie Polex's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Surie Polex reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to the current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.