

**PRODUCT DESCRIPTION**

LSH™ is a water-based lithium silicate solution used for treating and shining the surface of cementitious substrates. It bonds chemically with the concrete to strengthen and harden floors that are porous, readily absorptive, and only moderately hard.

AFZIR LSH™ product penetrates into the concrete, sealing the pores and capillaries and creating a chemical reaction within the concrete to produce a hard mineral film that is resistant to water, chemicals and abrasion.

**PRODUCT FEATURES**

- Water-based lithium silicate solution.
- Ready to use product.
- Floors treated with LSH™ hardener are shiny and dust-repellent.
- Increases the strength of the surface by filling the pores decreasing porosity while increasing density.
- Quick-drying for fast turnaround
- Less maintenance and up-keep.
- Creates a breathable surface for passage of moisture vapor.
- Does not leave a film and will not make surfaces slippery.
- Short downtime; floors can be put back into service immediately after application.
- Compatible with floor and carpeting adhesives and most stripping paints.
- Seals, densifies and dustproofs in one operation

**PRODUCT USES**

LSH™ can be used on:

- Interior or exterior horizontal concrete
- Floors and walls requiring a harder
- Office and multi-residential buildings
- Warehouse floors
- Food storage areas
- Diamond polishing concrete
- Docks and ramps

**HOW TO USE**

**SURFACE PREPARATION**

- The surface must be clean and free of dirt, oil, curing compounds or foreign materials.
- Patch all cracks and remove any laitance.
- grout and fill cracks as necessary to restore the surface finish
- Rinse, then remove surface water.
- Complete finishing operations and allow visible surface water to dissipate prior to application of LSH™.
- Surface must be able to bear foot traffic without marring or damaging the concrete.

**MIXING:**

LSH™ is a ready to use product, stir slightly.

**APPLICATION:**

- LSH™ may be applied by sprayer, roller or brush. To increase the effectiveness of the product, use a mechanical scrubber.
- Continue working until the product begins to gel or become slippery, then re-wet the surface and work for another 10-15 minutes.



Lithium Silicate Hardener for Concrete - LSH™

- As the surface gels or becomes slippery again, flush with water and squeegee the surface dry. Finally, wait 30 minutes, then flush the surface once more with fresh water and squeegee dry.
- LSH™ should soak into the concrete.
- Additional coats may be applied if the concrete surface is absorptive.

**APPLICATION NOTE:** In order for the proper reaction to occur, the surface must remain saturated for a minimum of 30 minutes. Very porous or open concrete surfaces may result in faster drying.

**TECHNICAL DATA**

Consistency	liquid
Colour	Clear
VOC Content	0 g/L
Density	1.1 g/cm <sup>3</sup>
PH	11
Dry solids content	12.5 %
Minimum Penetration time	30 min.

**Cleaning**

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

**HANDLING**

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

**STORAGE**

Store in unopened containers in a cool, dry area under normal warehouse conditions between 5°C and 40°C. It should be protect from freezing.

**FIRST AID**

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

**DISCLAIMER OF LIABILITY**

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of

## LSH™

Lithium Silicate Hardener for Concrete

product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.