



## SURFACE PREPARATION PRODUCTS

# LD1800

## CONCRETE LITHIUM DENSIFIER



View More Info for this Product at  
<http://www.surecretedesign.com/ld1800/>

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## CONCRETE LITHIUM DENSIFIER

### DESCRIPTION

**LD1800** provides a clean, safe, economical "stand-alone" finished concrete floor. This penetrating treatment reacts chemically with the free lime in concrete to produce calcium silicate hydrate within the concrete pores, making the concrete stronger and more durable. **LD1800** is a most desirable alternative to conventional sodium or potassium sodium hardeners that leave a high concentration of salts deposited up-on the surface. It will not contribute to alkali silicate reaction (ASR). **LD1800** is non-flammable, VOC compliant, environmentally safe, and non-staining.

### SURFACE PREP

Surface must be dry and clean of dust, dirt, oils, and other surface contaminants. It is imperative to provide surface profiling on concrete deck surfaces that are especially smooth, hard, dense, etc. For most applications, the most common means of profiling is accomplished with the use of **SCR**, the safe substitute for muriatic acid. See the application sheet for **SCR** for proper technique and instructions.

### APPLICATION

(Always test the concrete surface for desired results and suitability) Temperature of concrete and ambient temperature should be between 40°F and 100°F.

**New (freshly placed) concrete:** Apply a single coat with low pressure sprayer (see below listed coverage rate). Treated surface must stay wet for 15 minutes following spraying. Porous areas may require reapplication in 15 minute treatment period. Remove any remaining product after 15 minutes with rinsing, squeegee, or floor scrubber. Allow to dry. Any dry powder residue must be removed.

Following cure of concrete, construction dirt may be removed with floor scrubber cleaning pads that will enhance the sheen of floor.

**Old (cured) concrete:** Following surface preparation, the surface must receive water evenly. Test by wetting evenly with light spray. Hot and/or dry weather may require prewetting a floor and allowing any puddles to evaporate. Apply a single coat of **LD1800** with low pressure sprayer, soft bristle broom, mop, or squeegee. (see below listed coverage rate). Treated surface must stay wet for 15 minutes following spraying. Porous areas may require reapplication in 15 minute treatment period. Remove any remaining product after 15 minutes with rinsing, squeegee, or floor scrubber. Allow to dry. Any dry powder residue must be removed.

To enhance the sheen follow with dry buffing with floor rotational machine and black, red, or white pads.

### CLEAN-UP

Before **LD1800** dries; spills and tools can be cleaned up with water.



### PACKAGING

1 gal (3.8 L) jugs  
5 gal (18.9 L) pails  
55 gal (208 L) drums

### COVERAGE

Approx. 300 - 400 ft<sup>2</sup> (27.9 - 37.2 m<sup>2</sup>) per gallon

### PHYSICAL PROPERTIES

**Dry Time:** varies, approx. 1-2 hours  
**Color:** clear  
**Solids:** approx. 15%  
**Flash Point:** n/a  
**VOC:** 0 lbs per gal  
**Freeze Point:** 32°F (do not allow to freeze)

### SHELF LIFE

Under normal conditions: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened container is 1 year from the date of purchase. Storage must be under roof, off the floor, and protected from freezing. Rotate inventory to maintain product that is within limits.

### DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

### LIMITATIONS

For use by trained professionals that have read the complete SDS.

### WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufacturer's/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

### CAUTIONS

**KEEP OUT OF REACH OF CHILDREN. Inhalation:** Avoid prolonged breathing of product. Use NIOSH approved respirator if threshold limit values are unsafe. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

### SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

- <http://www.surecretedesign.com/sds/surface-prep-ld1800-sds.pdf>