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LD

1800

**LITHIUM DENSIFIER
AND CEMENT HARDENER**

DESCRIPTION

LD1800™ provides a clean, safe, economical “stand-alone” finished concrete floor option. 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.

BENEFITS

- Strengthens cement based surfaces
- Minimizes Efflorescence
- Minimizes Dusting
- Slows Hydrostatic Pressure

SURFACE PREP

Surface must be dry and clean of dust, dirt, oils, and other surface contaminants (see [SCR TDS](#)). 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.

APPLICATION

NOTE:

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 listed coverage rate). Treated surface must stay wet for 15-minutes following spraying. Depending on desired finish, the continued treatment can be LD 1800™ straight or 1:1 with water. 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, this can take place over the next few hours. Following cure of concrete, construction dirt may be removed with floor scrubber cleaning pads that will enhance the sheen of floor.

Existing (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. Treated surface must stay wet for 15 minutes following spraying. Depending on desired finish, the continued treatment can be LD 1800™ straight or 1:1 with water. Porous areas may require reapplication in 15-minute treatment period. Remove any remaining product after 15 minutes with rinsing, squeegee, or floor scrubber. Any dry powder residue must be removed, this can take place over the next few hours. To enhance the sheen, follow with dry buffing with floor rotational machine and black, red, or white pads.

Xtreme Series & D-FRC Colored Slurry:

On solid color castings, LD 1800™ can assist in creating “same col-

QUICK FACTS

PRODUCT NAME LD 1800™

PACKAGING

1-gallon jug (3.8 L)
5-gallon pail (18.9 L) / 55-gallon drum (208 L)

COVERAGE (Varies upon substrate)

Hard-Troweled Surface 300-400 ft² (27.9 m² - 37.2 m²) per gal
Porous Surface 100-200 ft² (9.3 m² - 18.6 m²) per gal

SHELF LIFE

Under normal conditions LD 1800™: 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.

or” slurry to fill in pin holes and small voids. Using a 50-grit diamond polishing pad (with channels) that is rated for wet/dry, begin removing the cream from the surface polishing dry. Keeping the dry powder on the surface, switch to a 100-grit diamond polishing pad (with channels) that is rated for wet/dry, pour LD 1800™ onto the surface and use your polishing pad to mix the dry powder with the LD 1800™. Move the created same color slurry into the voids using a circular motion. Continue the circular motion until the slurry turns to a dry color.

Once all pin holes and voids have been filled, let dry for 2 hours, and lightly sand the unwanted slurry off the surface with a 200-grit diamond polishing pad.

SUITABILITY SAMPLE

Always prepare an adequate number of on-site test areas on the intended substrate to establish aesthetic suitability for products’ intended use.

CLEANUP

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

CLEANUP

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.
- LD 1800™ is NOT allowed to freeze at any time, before it is fully cured. (see Freeze Point)
- LD 1800™ is NOT a membrane-forming curing compound.
- LD 1800™ is NOT designed to provide water and oil resistance; additional products are required to do so.
- LD 1800™ should NOT be allowed to dry on any surface, as it will leave a “whiteish” residue that is difficult to remove.
- Caution should be exercised when applying LD 1800™ to hard-troweled surfaces, as this can create a slippery surface during application.
- Colored Slurry technique requires the surface to be minimally 1/8” thick for this technique, in many cases this technique does not work well when XS or D-FRC Face Mix is used.

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 manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages. consequential damages.

WARNING

KEEP OUT OF REACH OF CHILDREN. Inhalation: Avoid prolonged breathing of airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance 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.

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)

SAFETY DATA SHEETS (SDS)

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

[LD 1800 Safety Data Sheet \(SDS\)](#)

MANUFACTURER PART

1-gallon jug (3.8 L)	SKU # 15102012
5-gallon pail (18.9 L)	SKU # 15102011
55-gallon drum (208 L)	SKU # 15102013