

# LSD™

## Lithium Silicate Densifier for Concrete



Building  
&  
Transportation



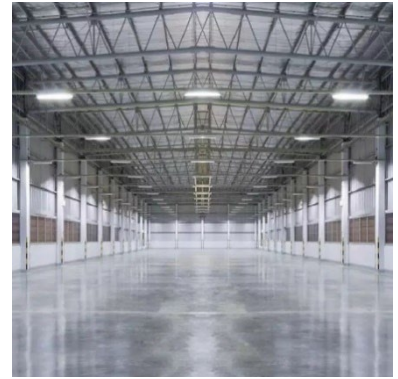
Oil, Gas  
&  
Industrial



Offshore  
&  
Onshore



Water  
&  
Wastewater



### PRODUCT DESCRIPTION

CTech-LLC® LSD™ is a water-based lithium silicate solution used to densify and dustproof concrete and masonry elements. It bonds chemically with the concrete to strengthen and harden floors that are porous, readily absorptive, and only moderately hard.

CTech-LLC® LSD™ 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.

### ADVANTAGES

- Water-based lithium silicate solution.
- Ready to use product.
- 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

### TECHNICAL DATA

|                     | Unit              | CWS™                  |
|---------------------|-------------------|-----------------------|
| Consistency         | --                | liquid                |
| Colour              | --                | Clear                 |
| VOC Content         | g/L               | 0                     |
| Density             | g/cm <sup>3</sup> | 1.1 g/cm <sup>3</sup> |
| PH                  | --                | 12.3                  |
| Dry solids content  | %                 | 16                    |
| Shelf life          | years             | 2                     |
| Drying time at 21°C | Hours             | 4 – 24                |

### TYPICAL USES

Typical areas of application are:

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

### INSTALLATION PROCEDURE

#### PREPARATION OF SUBSTRATE

- 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 LSD™.
- Surface must be able to bear foot traffic without marring or damaging the concrete.

#### MIXING

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

#### APPLICATION

- LSD™ 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.

- 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.
- LSD™ 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.

#### STORAGE & SHELF LIFE

- 24 months from the date of manufacture in original unopened original containers when stored in dry conditions (4°C - 49°C). DO NOT FREEZE!

#### CAUTION

This product may cause skin irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally.

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#### CTech-LLC<sup>®</sup>

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#### IMPORTANT NOTE:

Before using any CTech-LLC<sup>®</sup> product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at [www.ctech-llc.com](http://www.ctech-llc.com).

#### WARANTY:

CTech-LLC<sup>®</sup> warrants its products to be free from manufacturing defects. Buyer determines suitability of 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 one month of the date of purchase. CTech-LLC<sup>®</sup> 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 utilizing.