



## TECHNICAL DATA SHEET

# CD-LS

## CONCRETE DENSIFIER

CD-LS is a lithium silicate densifier designed for use with freshly placed concrete, tilt-up construction, existing concrete surfaces and cementitious overlays. It provides maximum hardening using a fast-drying reactive formula that will improve abrasion resistance and reduce dusting in a simple, one-coat application. CD-LS penetrates concrete up to a 1/4 inch deep where it reacts to form insoluble calcium silicate hydrate.

### APPLICATIONS

CD-LS reactive formula enhances the concrete to make it more water, stain and abrasion resistant for easier maintenance and longevity. The treatment does not leave a film and will reduce application time and cost compared to other technologies. It is an easy-to-apply water based solution and does not require rinsing. It is designed for a variety of applications including:

- Grocery Stores
- Aircraft Hangers
- Manufacturing Facilities
- Automotive Dealerships
- Schools
- Stadiums
- Parking Garages
- Laboratories
- Shipping Terminals
- Warehouses
- Food Processing Facilities

### ADVANTAGES

- Increased abrasion resistance
- Fully penetrating
- Reduces efflorescence and sweating
- Does not promote crazing
- Prolongs polished surface finish
- Resists stains and dusting
- Renders floors of any age dustproof
- Compatible with integral color, stains and dyes
- Improves concrete maintenance
- VOC-compliant

### PHYSICAL PROPERTIES

Form	Liquid
Color	Opaque, dries clear
Odor	Slight to None
Total Solids	8-9%
Specific Gravity	1.06
PH	11-12
VOC Content:	<50g/L
Flash Point:	N/A
Freeze Point:	32°F (0°C)

### Available in

- 1 Gallon Jug
- 5 Gallon Pail
- 55 Gallon Drum

### Shelf Life

1 year in sealed, unopened container.

### Storage Conditions

Container should be sealed tightly when not in use. Material may be stored between 36° F and 100° F. Do not allow to freeze.

### Consistency

Pourable, opaque liquid.

### Appearance

Dries clear with no film.



Meets the USGBC's LEED® Requirement of IEQ Credit 4.1

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### MATERIAL COVERAGE

Coverage rate will vary based on concrete porosity and environmental conditions. Steel troweled new concrete will yield higher coverage than a 200 grit surface. Typical installations yield 400-600 sq ft per gallon.

### APPLICATION INSTRUCTIONS

Before application, always do a small test sample in an approved area of the floor to be sure there are no variables or contaminants in the substrate that may be incompatible with this product. Surface must be clean, dry and absorbent. Apply only when surface temperature will be above 40°F (4°C) for at least 2 hours following application. In warmer temperatures it may be necessary to spray water on hot concrete with a surface temperature above 90°F in order to cool the surface prior to application to prevent flash-dry on the surface. Do not dilute or alter. Stir or mix well before use.

#### Newly Placed Concrete

For new machine-troweled concrete, CD-LS may be applied immediately after finishing after joints have been cut and cleaned. Clean the surface before application to remove any dirt, laitance, curing compounds, or coatings that may prevent CD-LS from penetrating the surface. Once dry, use a low pressure sprayer and apply CD-LS in an even, saturating coat. Spread out any puddles with a soft bristle broom or a flat microfiber pad. For best results, keep the surface wet with material for at least 20 minutes, adding more product where needed.

#### Existing Concrete

Clean the surface before application to remove any dirt, laitance, curing compounds, or coatings that may prevent CD-LS from penetrating the surface. Once dry, use a low pressure sprayer and apply CD-LS in an even, saturating coat. Spread out any puddles with a flat microfiber pad. For best results, keep the surface wet with material for at least 20 minutes, adding more product where needed. Maintain a wet edge and avoid spreading once drying begins.

#### Ground, Honed or Polished Concrete

Sand or grind surface as needed to achieve desired exposure. Clean all dust and debris from surface and allow wet areas to dry fully. With a low pressure sprayer, apply CD-LS in a saturating coat on the surface. Use a microfiber pad to spread product evenly and to ensure complete wetting of the surface. Maintain a wet edge and avoid spreading once drying begins. If surface dries immediately, apply more product as needed. For best results, keep the surface wet with material for at least 20 minutes. Spread out any puddles that develop before drying begins.

The surface is ready for continuing the polishing process or full use when completely dry.



### WARNINGS

Do not use citrus or acidic cleaners. If acidic or dlimonene cleaners have been used, neutralize the surface using an alkaline cleaner.

### CLEAN UP

Use soap and water to clean tools and equipment. Although CD-LS is non-toxic and environmentally safe, it is alkaline. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains.

### LIMITATIONS

CD-LS will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces. Not suitable for asphalt, non-cement surfaces or painted surfaces. Paint and coatings may be applied over the top of CD-LS. Visit [www.htspoly.com](http://www.htspoly.com) to find additional tips, guidelines and specifications. Proper application is the responsibility of the user.

### SAFETY AND HANDLING

All personnel should read and understand the Safety Data Sheet prior to use. Proper safety equipment must always be worn in accordance with OSHA regulations including but not limited to protective non-slip footwear, rubber gloves, eye protection or splash shield, and long sleeve coveralls.

**CAUTION:** Surfaces wet with CD-LS may be slippery. Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN.** This product is alkaline. Keep container closed tightly when not in use. Do not drink. If swallowed, do not induce vomiting; drink two glasses of water and call a physician. If splashed in eyes, rinse eyes immediately with clean water and call a physician if irritation persists. CD-LS will dry out and irritate the skin. Clean skin with soap and water promptly.

### WARRANTY

HTS products are free of manufacturing defects. When applied in accordance with HTS'S directions and tested in compliance with ASTM and HTS's standards, CD-HS will meet current published physical properties. There are no other warranties by HTS of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HTS Corporation shall not be liable for damages of any sort (including remote or consequential damages) resulting from any claimed breach of any warranty, whether expressed or implied. This includes any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.