



TECHNICAL DATA SHEET

CD-HSL CONCRETE DENSIFIER

CD-HSL is a low-solids blended silicate densifier designed for burnished and steel troweled concrete polishing and polishable overlays, and is an ideal choice for use with green concrete. It provides maximum hardening, and uses a fast-drying reactive formula to improve the final appearance of the polished surface. CD-HSL provides a significantly harder surface, allowing abrasive tools to more effectively achieve a superior polish. Proper application ensures an extremely dense surface that is also breathable. CD-HSL is easy to apply, and will not skin, film, or discolor.

APPLICATIONS

CD-HSL is a blended silicate reactive formula, specifically designed for concrete polishing. With a simple one-coat application, CD-HSL not only enhances polished concrete gloss and clarity, but it also provides significant abrasion resistance. It is a waterbased solution that is easy to apply and does not require rinsing. CD-HSL is designed for a variety of applications:

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

ADVANTAGES

- Preserves natural look of the surface
- 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	4.7-5.3%
Specific Gravity	1.03
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

CD-HSL

CONCRETE DENSIFIER

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. Do not dilute or alter. Stir or mix well before use.

Newly Placed Concrete

For new machine-troweled concrete, CD-HSL 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-HSL from penetrating the surface. Once dry, use a low pressure sprayer and apply CD-HSL 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.

Steel Troweled or Burnished Concrete

Clean the surface before application to remove any dirt, laitance, curing compounds, or coatings that may prevent CD-HSL from penetrating the surface. Once dry, use a low pressure sprayer and apply CD-HSL 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. Once dry, use a high speed burnisher equipped with a 800 grit diamond impregnated pad to remove any residue and enhance surface shine.

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-HSL in a saturating coat on the surface. Use a clean 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 used, neutralize the surface using an alkaline cleaner.

CLEAN UP

Use soap and water to clean tools and equipment. Although CD-HSL 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-HSL will not bridge or fill cracks, and will not salvage honeycombed or structurally unsound surfaces. This product is not suitable for asphalt, non cement or painted surfaces. Paint and coatings may be applied over the top of CD-HSL. Proper product application is the responsibility of the user. Proper application is the responsibility of the user. Visit www.htspoly.com to find additional guidelines and specifications.

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 longsleeved coveralls.

CAUTION: Surfaces wet with CD-HSL may be slippery. Refer to the Safety Data Sheet for additional precautions, safety information, and first aid treatments.

FIRST AID

KEEP OUT OF REACH OF CHILDREN. This product is an 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-HSL 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-HSL 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.