



DATA SHEET NO. 3360-378-A

LIQUI-HARD® ULTRA Molecular Concrete Densifier and Chemical Hardener

DESCRIPTION

LIQUI-HARD ULTRA concrete densifier and chemical hardener is a waterborne, lithium-silicate-based, ready-to-use, colourless liquid, which hardens and dustproofs concrete at a molecular level. After proper application, the finished surface offers substantial improvement in abrasion and chemical resistance and will significantly improve the durability of the surface when compared to untreated concrete. As LIQUI-HARD ULTRA is applied and penetrates into the concrete surface, a chemical reaction takes place, producing a byproduct that fills in the pores of the concrete. LIQUI-HARD ULTRA solidifies the concrete, eliminating dusting and pitting.

LIQUI-HARD ULTRA is chemically engineered to provide timely, quick, sustainable performance. The product is simply sprayed on and then left moist on the surface for 20 minutes. In this short period of time, the colourless liquid quickly penetrates into the surface. After application, the resulting surface features enhanced protection and sheen, coupled with superior abrasion resistance. This environmentally safe, water-based product features a zero VOC content and provides an attractive option in green building applications.

USES

LIQUI-HARD ULTRA is recommended for use wherever hardened, dustproofed, and improved chemical and abrasion resistant surfaces are required. Ideal applications include floors in restaurants, industrial plants, warehouses, storage silos, sewage plants, chemical processing facilities, refineries, and heavy pedestrian floor traffic areas, such as civic centers, sports arenas, stadiums, hospitals, airports, and museums. LIQUI-HARD ULTRA can successfully be used in conjunction with shake-on hardeners.



The **INDUROSHINE®** polished concrete system combines green concrete polishing and diamond grinding equipment with LIQUI-HARD ULTRA to create a unique, high sheen, wear-resistant concrete floor. Also works well on concrete countertops. Please contact W. R. MEADOWS for more information.

FEATURES/BENEFITS

- Penetrates deeply into concrete to densify and harden surfaces to help prevent entry of moisture and other foreign matter.
- Quick and easy, hassle-free application procedure (no flushing or rinsing required).
- Improved freeze/thaw resistance.
- Dustproofs and improves chemical, petroleum, and abrasion resistance of treated surfaces.
- Provides a permanent, attractive sheen with the ability to polish.
- Protects against scratching or peeling.
- Provides tough, protected surface that won't yellow, discolour, or show pedestrian or vehicular traffic wear marks.
- Improves light reflectance.
- May be burnished.
- Compatible with BELLATRIX® for an enhanced concrete floor.
- Ready to use from container and easy to apply.
- Saves time on the polishing/burnishing process.
- Indoor or outdoor use.
- Environmentally safe, non-hazardous.
- VOC content is 0.00 g/L.

PACKAGING

18.9 Litre (5 U.S.Gallon) Pails
208.2 Litre (55 U.S. Gallon) Drums

COVERAGE/APPLICATION RATE

Type of Surface	m ² /L	ft. ² /gal.
Fresh (Newly Placed)	15.95 - 19.63	650 - 800
Existing (Steel)	11.04 - 14.72	450 - 600
Existing (Broomed)	7.36 - 9.82	300 - 400

Note: Coverage rates may vary, depending on the finish and porosity of the concrete.

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within one year of date of manufacture.

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SPECIFICATIONS

- Canada VOC Concentration Limits for Architectural Coatings Regulations

APPLICATION

Surface Preparation ... Fresh Concrete: On newly placed concrete, LIQUI-HARD ULTRA can be applied after final troweling.

For a curing and hardening system, use MED-CURE™ or SIL-CRETE™ curing aid from W. R. MEADOWS immediately after final finishing operations have been completed. Apply LIQUI-HARD ULTRA according to below existing concrete directions a minimum of three days (preferably 28 days) after placement of concrete.

Existing (Old) Concrete: Surface should be clean and structurally sound. Remove all residues, curing compounds, oils, sealers, contaminants, and laitance before applying LIQUI-HARD ULTRA. ULTRITE® DEGREASER from W. R. MEADOWS may be used for cleaning. Fill and repair all holes, cracks, and deteriorated areas that have been removed to sound concrete.

Mixing ... For optimum performance, gentle mixing or agitation is recommended.

Application Method ... Fresh Concrete: Apply undiluted LIQUI-HARD ULTRA at approximately 15.95 - 19.63 m²/L (650 - 800 ft.²/gal.) using a low-pressure sprayer, such as a Chapin 1949, or by spreading evenly with a soft-bristled broom. Do not allow material to puddle on the surface. No further application steps are required for fresh concrete.

Existing (Old) Concrete: Moisten the surface with undiluted LIQUI-HARD ULTRA by sprayer or microfiber applicator. When spraying, a spray nozzle that produces a flow of 1.9 LPM (0.5 GPM) per minute under 40 psi (0.276 MPA), is recommended. LIQUI-HARD ULTRA should be sprayed in a fine fog pattern. Keep surface moist with LIQUI-HARD ULTRA for 20 minutes but do not let material stand and puddle. If excess material is still on surface after 20 minutes, use a microfiber applicator to even out excess material. Pay particular attention to steel-troweled surfaces. After initial 20 minutes, let the surface dry.

Note: For concrete older than 28 days, please contact a W. R. MEADOWS representative at 1-800-563-3618.

Burnishing ... LIQUI-HARD ULTRA can be burnished to a high sheen on steel trowel concrete floors. A high-speed burnisher (2000 - 2200 rpm) with appropriate maintenance pad is needed.

WARNING... Immediately wash off over-spray from glass, aluminum, or highly polished surfaces with water to avoid etching of surfaces.

Drying Time ... 2 - 4 hours. LIQUI-HARD ULTRA dries very quickly on newly placed concrete. Drying times may be extended on existing (old) concrete due to surface conditions. Restrict foot traffic for at least four hours; 12 hours is preferable.

Cleanup ... Clean equipment immediately after use and while still wet with soap and water.

PRECAUTIONS

DO NOT DILUTE. Do not apply if the temperature of the concrete is less than 4° C or above 57° C. **KEEP FROM FREEZING.** If frozen, product should be thawed and agitated slightly prior to use. If excess material remains on surface after 20 minutes, mop or spread out to a thin, even material coverage. Do not allow excess material to puddle. Do not over apply. Apply two thin coats if necessary. Do not cover freshly treated area with plastic. If treated area needs to be protected from other trades, cover with a "breathable" covering, such as construction paper. Protect glass, aluminum, highly polished surfaces, or other surfaces that could be potentially etched.

HEALTH AND SAFETY

LIQUI-HARD ULTRA is non-combustible. Direct contact will result in irritation of the skin and eyes. Inhalation of product mist may result in respiratory irritation. Refer to Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

03 35 00 - Concrete Finishing

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.2: Low-Emitting Material - Paints and Coatings
- IEQ Credit 4.3: Low-Emitting Materials - Flooring
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.



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