

PRODUCT DATA

W. R. MEADOWS®

SEALIGHT®

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NO. 378-A

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LIQUI-HARD® ULTRA

Molecular Concrete Densifier and Chemical Hardener

DESCRIPTION

LIQUI-HARD ULTRA concrete densifier and chemical hardener is a ready to use, colorless 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 one molecule at a time. 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 colorless liquid quickly penetrates into the surface. Unlike traditional densifiers, LIQUI-HARD ULTRA does not require brushing into the surface or rinsing. 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 industrial plants and 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. Please contact W. R. MEADOWS for more information.

SPECIFICATIONS

- Complies with SCAQMD maximum allowable VOC requirement.
- Treated surface is USDA accepted.

FEATURES/BENEFITS

- Intimate molecular reaction 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).
- Does not require brushing into the surface or rinsing (except in puddle areas).
- 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, discolor 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.

COVERAGE/APPLICATION RATE

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

*When used as a curing compound on newly placed concrete.

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

CONTINUED ON REVERSE SIDE...

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GOODYEAR, AZ / MILTON, ON / ST. ALBERT, AB

PACKAGING

5 Gallon (18.93 Liter) Pails
55 Gallon (208.20 Liter) Drums

SHELF LIFE (TYPICAL)

One year in original, unopened container.

LEED INFORMATION

May help contribute to LEED credits:

- EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

APPLICATION

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

For a curing and hardening system, use MED-CURE™ 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 650-800 ft.²/gal. (15.95-19.63 m²/L) using a low-pressure sprayer 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.



LIMITED WARRANTY

"W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

Existing (Old) Concrete: Saturate the surface with undiluted LIQUI-HARD ULTRA by sprayer, squeegee, or broom. Keep surface moist with LIQUI-HARD ULTRA for 20 minutes but do not let material stand and puddle. NOTE: Pay particular attention to porous and/or dry areas. These areas must be kept wet at all times with LIQUI-HARD ULTRA. After initial 20 minutes, let the surface dry.

Note: For concrete older than 28 days, please contact a W. R. MEADOWS representative at 1-800-342-5976.

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 ... While still wet, equipment may be cleaned quickly and easily with soap and water.

PRECAUTIONS

DO NOT DILUTE. Do not apply if the temperature of the concrete is less than 40° F (4° C) or above 135° F (57° C). **KEEP FROM FREEZING.** If frozen, product should be thawed and agitated slightly prior to use.

HEALTH HAZARDS

LIQUI-HARD ULTRA is non-combustible. (Flash point is >210° F.) Direct contact will result in irritation of the skin and eyes. Inhalation of product mist may result in respiratory irritation. Refer to Material Safety Data Sheet for complete health and safety information.

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