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(Supersedes January 2015)

LIQUI-HARD®

Concrete Densifier and Chemical Hardener

DESCRIPTION

LIQUI-HARD concrete densifier and chemical hardener compound is a proprietary, water-based, ready-to-use, clear silicate liquid, formulated with chemically reactive raw materials to harden and dustproof concrete. This waterborne solution, when properly applied, offers substantial improvement in abrasion and chemical resistance and will significantly improve the durability of the concrete surface when compared to untreated concrete. As LIQUI-HARD is applied and penetrates into the concrete surface, a chemical reaction takes place, producing a byproduct that fills in the pores of the concrete. This process produces a substantially denser concrete surface with enhanced durability. In addition to the densifying and hardening action, LIQUI-HARD also solidifies the concrete, eliminating dusting and pitting.

USES

LIQUI-HARD 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 can successfully be used in conjunction with shake-on hardeners.



The **INDUROSHINE®** system from W. R. MEADOWS combines green certified concrete polishing and diamond grinding equipment with LIQUI-HARD to create a unique, high sheen, wear-resistant concrete floor. 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.
- 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 after-yellow, discolor, or show pedestrian or vehicular traffic wear marks.
- Improves light reflectance.
- Ready to use from container and easy to apply.
- VOC-compliant.

PACKAGING

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

COVERAGE

Type of Surface	ft. ² /gal.	m ² /L
*Fresh (Newly Placed)	300	7.36
Existing (Old)	200	4.91

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

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 40° - 90° F (4° - 32° C), optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS/STANDARDS

- Complies with U.S. EPA, LADCO, OTC, SCAQMD, and all other current North American VOC regulations.
- Treated surface is USDA accepted.

TECHNICAL DATA

VOC Content: 0 g/L

APPLICATION

Surface Preparation ... Fresh Concrete: On newly placed concrete, LIQUI-HARD can be applied after final troweling.
Existing (Old) Concrete: Surface should be clean and structurally sound. Remove all residues, curing compounds, oils, sealers, contaminants, and laitance before applying LIQUI-HARD. For resin-based curing compounds, cure-and-seals and sealers, use ULTRITE® COATING REMOVER from W. R. MEADOWS for

CONTINUED ON THE REVERSE SIDE...

W. R. MEADOWS, INC.

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removal. Fill and repair all holes, cracks, and deteriorated areas that have been removed to sound concrete.

For optimum results on fresh, newly placed concrete, use MED-CURE™ curing aid from W. R. MEADOWS immediately after final finishing operations have been completed. Apply LIQUI-HARD according to above existing concrete directions a minimum of three days after placement of concrete.

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

Application Method ... *Fresh Concrete:* Apply undiluted LIQUI-HARD at approximately 300 ft.²/gal. (7.36 m²/L) using a low-pressure sprayer, such as a Chapin 1949 with a 0.5 GPM (1.9 LPM) spray nozzle, 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:* Saturate the surface with undiluted LIQUI-HARD by sprayer, squeegee or broom. Keep the surface wet with LIQUI-HARD for a minimum of 30 minutes. (A range of 30 - 60 minutes may be required depending on temperature and conditions.) NOTE: Pay particular attention to porous and/or dry areas. These areas must be kept wet at all times with LIQUI-HARD. Once the surface begins to gel and becomes slippery, immediately spray the surface with a light water mist. Scrub the surface with a broom or mechanical scrubber to increase the penetration of the LIQUI-HARD. Continue to work the LIQUI-HARD into the surface for another 5 - 10 minutes or until LIQUI-HARD becomes gelled and slippery for a second time. At this time, THOROUGHLY flush the surface with water. During the flushing process, agitate the surface with a broom to aid in removal of the excess LIQUI-HARD. Remove all excess material with a mop or squeegee. Thoroughly squeegee the surface dry. If there are slippery patches, this is an indication that there is still excess LIQUI-HARD present. These areas should be re-flushed and squeegeed again until the entire surface is dry. (Extremely porous surfaces may require a second application.)

WARNING: Failure to thoroughly wash and remove all excess material from floor surfaces may result in unsightly white stains. Immediately wash off over-spray from glass, aluminum, or highly polished surfaces with water to avoid etching of surfaces. For application assistance, contact W. R. MEADOWS at (800) 342-5976.

Burnishing ... LIQUI-HARD 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.

Drying Time ... 2 - 4 hours. LIQUI-HARD dries very quickly on new, virgin 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. Do not allow LIQUI-HARD to dry before flushing excess from surfaces.

PRECAUTIONS

DO NOT DILUTE. Do not apply if the temperature of the concrete is less than 35° F (2° C) or above 135° F (57° C). **KEEP FROM FREEZING.** If frozen, product should be thawed and agitated slightly prior to use.

HEALTH AND SAFETY

LIQUI-HARD is non-combustible. (Flash point is greater than 210° F.) 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.

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.2: Low-Emitting Materials: Paints and Coatings
- IEQ Credit 4.3: Low-Emitting Materials – Flooring Systems
- 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.



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.