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APRIL 2024
(Supersedes January 2022)**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 **INDUROSINE®** 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.
- ASTM C779
- ASTM F150
- ASTM F609
- ASTM G155
- Taber Abrasion

TECHNICAL DATA

VOC Content: 0 g/L

APPLICATION

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

CONTINUED ON REVERSE SIDE ...

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Application Method

Fresh Concrete ... Depending on the application, MED-CURE may be a better choice for freshly placed concrete. Contact W. R. MEADOWS for recommendations. Apply LIQUI-HARD after final finishing and control joints installation using a low-pressure, high-volume sprayer. Note: All saw cut debris/dust must be removed prior to the application of LIQUI-HARD. Spray in uniform pattern using a sprayer such as a Chapin 1949 with 0.5 GPM (1.9 LPM) spray nozzle; use a microfiber applicator to evenly spread out and ensure puddles are spread out. After applying LIQUI-HARD, follow Existing Concrete instructions as described below to help reduce whitening issues. NOTE: If subsequent coatings or treatments will be applied, W. R. MEADOWS recommends that all surfaces are cleaned prior.

Existing Concrete ... Surface needs to be clean free of oil, bond-breakers, curing compounds, dust, or anything else that will inhibit the penetration. If needed for existing hard-troweled concrete, clean the surface by sanding, grinding, or by the use of a diamond adhesive pad. Remove any dust and thoroughly rinse with water. Surface must be thoroughly dry prior to the application of LIQUI-HARD. 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: For both new and existing concrete applications, 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 ... Allow surface to dry 2 - 4 hours. LIQUI-HARD dries very quickly on new 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.

For most current data sheet, sustainability 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.