



## LIQUID DENSIFIER AND SEALER FOR CONCRETE SURFACES

# EUCO® DIAMOND HARD™



### TYPICAL APPLICATIONS

- Warehouses
- Distribution Centers
- Manufacturing Plants
- Commercial and Retail Floors

### FEATURES / BENEFITS

- Strengthens and seals concrete surfaces with a unique silicate/siliconate blend
- More active ingredients than similar competitive products
- Tested in accordance with CDPH v1.2 and approved for use on LEED v4.0 projects
- Easy to apply and maintain
- Develops an attractive sheen that is enhanced as the floor ages
- Reduces tire marking and dust-proofs concrete surfaces
- Repels liquids including water, oil and many chemicals
- Excellent on new or existing floors
- Backed by a solid warranty program
- Odorless, non-toxic, very low VOCs

### CONCRETE FLOOR DENSIFIER AND SEALER

EUCO® Diamond Hard™ is a unique blend of silicate and siliconate polymer technology that penetrates into concrete surfaces and chemically reacts to produce an extremely dense and durable sealed floor. The result is concrete that resists wear from abrasion, repels water and other chemicals, and reduces the appearance of tire marks and stains. **EUCO Diamond Hard** will enhance the appearance of smooth, steel troweled concrete and will actually become more attractive over time. With regular, easy maintenance, **EUCO Diamond Hard** will continue to protect and beautify concrete for many years.

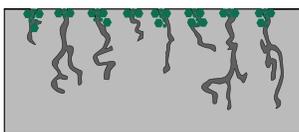
**EUCO Diamond Hard** penetrates and fills the concrete pores offering better liquid repellency, hardening and chemical resistance compared to densifiers that only contain silicate.

### HOW IT WORKS

Silicate in **EUCO Diamond Hard** reacts with the calcium hydroxide present in concrete, producing a hard, crystalline gel called Calcium Silicate Hydrate (CSH). This gel fills the pores in the concrete surface, making it more dense and abrasion resistant.

**EUCO Diamond Hard's** siliconate reacts with atmospheric carbon dioxide, catalyzed by the alkaline materials in concrete, to form a silicone polymer that provides water and chemical repellency to the concrete.

It is the dual action of both the silicate and siliconate that makes **EUCO Diamond Hard** superior to any other chemical concrete densifier or sealer on the market.



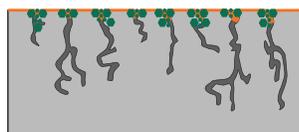
#### CSH GEL

The silicate in **EUCO Diamond Hard** reacts to form extremely hard crystals in the pores of concrete surfaces.



#### POLYSILOXANE RESIN

The siliconate in **EUCO Diamond Hard** also reacts to create a liquid-repellent silicone seal on the concrete surface.



#### CSH GEL / POLYSILOXANE RESIN

The combined activity of silicate and siliconate provides both a strengthened and sealed concrete surface by the action of the silicate and siliconate.



**EUCLID CHEMICAL**

## PREPARATION AND INSTALLATION

A clean, sound surface is required for application of **EUCO Diamond Hard**. The floor should be free of any materials such as curing compounds that could prevent **EUCO Diamond Hard** from penetrating.

Only one long-lasting application of **EUCO Diamond Hard** is required.

Apply with high-volume, low-pressure sprayer, then scrub **EUCO Diamond Hard** into the surface with fine-bristled brooms or an auto scrubber. After keeping the entire surface wet with **EUCO Diamond Hard** for 30-40 minutes, the material thickens slightly and becomes gel-like. At this point, flush completely with water and squeegee dry, or vacuum excess material with an automatic scrubber.

See the **EUCO Diamond Hard** technical data sheet on [euclidchemical.com](http://euclidchemical.com) for more detailed application instructions.

## THE EUCO DIAMOND HARD SYSTEM

A concrete floor should be given every opportunity to become as strong and as durable as it can be. Proper curing of new concrete is essential! And although some other brands of concrete densifiers come with claims that they can be used as concrete curing compounds – the truth is no silicate or silicate product meets any industry standard for concrete curing. **The Euclid Chemical Company** can provide a comprehensive system for curing, cleaning and sealing new concrete.

### **Kurez DR VOX**

Dissipating curing compound; ensures proper moisture retention in new concrete for proper strength gain.

### **EUCO Clean & Strip**

Biodegradable, user-friendly floor cleaner and stripper; use to aid in the removal of **Kurez DR VOX** and ready the floor for the application of **EUCO Diamond Hard**.

## CARE AND MAINTENANCE

Other than good housekeeping, no special maintenance procedures are required. Periodic cleaning with alkaline detergents – and quick clean-up of any spills – will make certain that a **EUCO Diamond Hard** floor only becomes more attractive and lustrous over time. **EUCO Diamond Hard** cannot be washed off, so the more it is cleaned, the better it looks. Compared to film-forming floor coatings, **EUCO Diamond Hard** can be reapplied over itself at any time, with minimal preparation work.

Euclid Chemical also offers a complete line of mineral and metallic aggregate floor hardeners for exceptionally durable and abrasion resistant floors. These floor hardeners, sealed with **EUCO Diamond Hard**, provide long-lasting and unbeatable performance.

For more than 100 years, The Euclid Chemical Company has served as a leading supplier to the concrete and masonry industry offering a full line of engineered concrete admixture and construction products marketed under the **EUCO** brand name. These products include concrete admixtures, block and masonry additives, curing and sealing compounds, epoxy adhesives, floor and wall coatings, structural grouts for columns, equipment and machinery, joint fillers and repair products. The Euclid Chemical Company strives to bring innovative technologies and products to the concrete market with industry-leading customer service.

