



# L&M™ CHEM HARD™

DS-175-0524

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

L&M™ CHEM HARD™

## 2. MANUFACTURER

LATICRETE International, Inc.  
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## 3. PRODUCT DESCRIPTION

CHEM HARD chemically reacts with soft free lime and calcium carbonate compounds in concrete to densify and create, chemically resistant surfaces. CHEM HARD is a Low VOC, colorless solution of a carefully controlled concentration of 100% active chemicals with a non-acid penetrant. CHEM HARD may be applied to fresh or hardened concrete as a chemical hardener and dustproofers.

### Specification Description

033000- Chemical hardener. Clear, VOC compliant chemical hardener. Five year warranty against dusting. Two coats required

### Uses

- CHEM HARD is recommended for light industrial plants, warehouses, laundries, as well as in food

storage plants and bakeries. It is also appropriate for areas with frequent foot traffic such as civic centers, sports arenas, stadiums and other commercial buildings.

### Advantages

- A low cost treatment for exposed concrete surfaces
- Residue-free surface allows bond of various paints, adhesives or toppings
- Low odor
- No solvent vapors
- Fast drying

### Suitable Substrates

- Existing Concrete
- Freshly Poured Concrete

### Packaging

5 Gal (18.9 L)

55 Gal (208 L)

### Approximate Coverage

Typical Application Rate: 300 ft<sup>2</sup>/gal (7.3 m<sup>2</sup>/L)

Two coats recommended.

### Shelf Life

Containers are to be sealed and stored in a cool, dry place above 40°F (4°C). Shelf life is two years in unopened containers when properly stored. Do not allow to freeze.

### Limitations

- Apply when concrete surface temperatures are 40°F (4°C) and rising
- Apply to oil-free and thoroughly cleaned, sound concrete surfaces
- Provide adequate ventilation in enclosed areas to facilitate proper drying
- Do not puddle

### Cautions

- Keep from freezing
- Wear protective gloves and goggles

- Avoid prolonged skin contact and absolutely no contact with all food stuffs
- Please refer to the material safety data sheet (SDS) for more detailed information
- Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system.

#### 4. TECHNICAL DATA

##### Applicable Standard

- Fed. Spec. CEGS 03300 4-79,
- ACI 302, Class 1 through 4 Concrete Floors

##### Physical Properties

Property	Observed
Viscosity	Water like
Color	Clear
Type Solids	Sodium Silcate
VOC g/L	0

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

#### 5. INSTALLATION

- **Old Concrete:** Surfaces must be sound and clean. All residue, oil, sealers, waxes, contaminants and laitance must be removed from surfaces for maximum penetration. Remove unsound concrete and repair holes, cracks and deteriorated areas. Apply two or more uniform coats at the rate of 300 ft<sup>2</sup>/gal (7.3 m<sup>2</sup>/L) each coat as needed. Allow a minimum of 4 hours between coats. Apply to oil-free and thoroughly cleaned, sound concrete surfaces. Provide adequate ventilation in enclosed areas to facilitate proper drying. Do not puddle.

**New Concrete:** Spray first coat uniformly after surface water glaze is gone, at the rate of 300 ft<sup>2</sup>/gal (7.3 m<sup>2</sup>/L). Apply second coat uniformly at the same rate in the opposite direction. Squeegee or wipe up all puddling. Fresh concrete placed in enclosed areas without adequate ventilation will hold water in concrete causing a super saturated condition. When CHEM HARD is applied in such conditions, it may build on surfaces creating a very slippery jelly-like silicate residue. Flush with water and squeegee off residue before it dries. Re-apply CHEM HARD after floor has thoroughly dried.

#### 6. AVAILABILITY AND COST

##### Availability

LATICRETE materials are available worldwide.

##### For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at [laticrete.com](http://laticrete.com)

##### Cost

Contact a LATICRETE Distributor in your area.

#### 7. WARRANTY

See 10. FILING SYSTEM:

#### 8. MAINTENANCE

The long term performance, appearance, and life expectancy of wear surface products are critically dependent upon a good routine maintenance program designed specifically for the installed wear surface type, traffic, and other conditions. Properly placed walk-off mats, inside and outside will help increase the life of the floor. Some cleaning products and equipment or improper use of products can damage a wear surface appearance over time. Recommended maintenance program consists of frequent and through cleanings utilizing FGS CONCRETE CONDITIONER™. Frequency of washing will vary, as it may be necessary daily, weekly or less frequently depending on floor usage and age. A mechanical walk-behind or ride-on scrubber is an efficient and economical means of regularly cleaning concrete floors. Only soft scrubbing or soft brush attachments should be used when mechanically scrubbing your floor. Do not use aggressive abrasive pads or brushes. The use of black scrubbing pads, diamond impregnated pads or carbide impregnated type brushes may dull the surface gloss. Wet mops work well on small floors or places where a mechanical scrubber will not fit.

#### 9. TECHNICAL SERVICES

##### Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

##### Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [laticrete.com](http://laticrete.com).

#### 10. FILING SYSTEM

Additional product information is available on our website at [laticrete.com](http://laticrete.com). The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty

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