



Making Concrete Better

Lythic XL Densifier

Technical Product Data

rev 2012/10

Product Description

Lythic XL Densifier is a colloidal silica based concrete hardener and densifier that prevents dusting and increases durability in concrete floors. Engineered with a specifically sized silica particle, it is designed to strengthen soft porous concrete slabs. Floors treated with Lythic XL Densifier are durable and resistant to dusting and wear.

Primary Applications

Lythic XL Densifier can be applied to any exposed concrete surface to harden, densify, and prevent dusting.

- Concrete restoration
- Warehouses / Distribution centers
- Commercial Floors
- Residential garages and basements

Benefits

Fills the surface capillaries of concrete with silica creating a permanent bond that makes floor surfaces harder, less prone to dusting and the absorption of most liquids.

- Meets all VOC regulations including California
- Permanently bonds to concrete
- Prevents dusting
- Reduces costs by saving labor and time
- Improves durability long term
- Lower pH improves reactivity and stability of materials.
- Can be burnished to a shine when used as a "spiff coat"
- Can be used to restore older slabs to a polishable state.

Physical Properties

- Appearance.....milky white liquid
- Drying Time.....20 min to 1 hour
- VOC Content.....0 g/l
- pH.....9.5 - 10.5
- Freeze point.....32°F
- Shelf Life.....1 year
- Coverage.....400-600 ft² / gal

Packaging

- Bucket, apx 5 gallon or 19 liter
- Drum, apx 55 gallon or 209 liter
- Tote, apx 270 gallon or 1022 liter

Storage

Lythic XL Densifier should be stored tightly sealed in its original container in a cool dry place to maximize shelf life. Shelf life is approximately 1 year.

Clean-up

Clean tools and equipment with water immediately after use. Residue from application and clean-up is non-toxic. Protect metals, glass, wood, paint or brick from contact with Lythic Densifier. If surface is accidentally over sprayed, wash immediately with potable water.

Caution

Keep out of reach of children. For professional use only. Read the material safety data sheet (MSDS) before handling or using. Follow recommended safety procedures while handling or using.

Application / Directions

Lythic XL Densifier has two primary methods of application:

- 1) Restoring old concrete slabs.
- 2) The HardWear Floor process provides a light reflective floor finish without diamond tooling.

Dilution: dilute 1 part XL Densifier to 4 parts or up to 7 parts potable water

Use a low pressure sprayer to apply Lythic XL Densifier to form an even sheen across surface to ensure complete saturation of surface. Apply enough XL Densifier to keep the surface wet for 15 to 20 minutes. Let surface dry 1 hour before heavy traffic. Older concrete will benefit from a second application.

Concrete Restoration

The larger silica molecule in Lythic XL Densifier is ideal for restoring the surface of an old concrete slab. Use Lythic Densifier as directed for deep penetration and use Lythic XL Densifier to prevent the further breakdown of the concrete surface. Product coverage will vary depending on porosity. Treatment may allow a once-soft slab to accept a polish.

The HardWear Floor Process

Lythic XL Densifier can be used to harden and densify a concrete slab. Lythic XL Densifier's reactive silica allows a surface to be burnished to a polished look without diamond tooling. This is an affordable and effective floor solution for many commercial and industrial spaces that have a well placed slab. Please contact Lythic for more information.

Maintenance

Only an approved maintenance regimen should be used. Consult Lythic Solutions for more information. Cleaning solutions should be neutral pH. Avoid acidic cleaners and detergents containing hydroxides or sulfates as these may etch or dull the surface.

Warranty

Lythic Solutions, Inc. ("Lythic") warrants for 12 months from the date of shipment by Lythic or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Lythic, the product is free of manufacturing defects and conforms to Lythic's properties in force on the date of acceptance by Lythic of the order. If Lythic, in its sole discretion, determines that the product breached the above Warranty, it will, in its sole discretion, replace the non-conforming product or refund the purchase price. Please contact Lythic for additional detail or clarification.

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