



Making Concrete Better

# Lythic Densifier

## Technical Product Data

rev 2012/10

### Product Description

Lythic Densifier is a blend of inorganic polymer materials that penetrates cementitious surfaces to increase density and hardness. Lythic Densifier's proprietary formulation of reactive nano-sized particles, penetrates deeply into concrete surfaces bonding with the cement components of the slab. Lythic Densifier makes an extremely hard, dense surface that has increased wear resistance to foot and fork lift traffic. It is water based and environmentally friendly and is VOC compliant in all states.

### Primary Applications

Lythic Densifier can be applied over existing or cured concrete, or while the slab is still green just after final trowel. Lythic Densifier can also be used over cementitious wear toppings.

- Interior or exterior concrete
- Warehouses / Distribution centers
- Residential and garages
- Commercial floors
- Schools / Institutional
- All concrete surfaces

### Benefits

- Meets all VOC regulations including California
- Permanently bonds to concrete
- Prevents dusting
- Does not 'white' if over used or not removed
- Reduces costs by saving labor and time
- Improves durability long term

### Physical Properties

- Appearance.....clear tinted liquid
- Drying Time.....20 min to 1 hour
- VOC Content.....0 g/l
- pH.....apx 9.5
- Freeze point.....32°F
- Shelf Life.....1 year
- Coverage.....400 - 600 ft<sup>2</sup> / 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 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 Densifier can be applied to concrete of any age. Surface must be clean and structurally sound. Surface also must be clear of membrane forming curing compounds, oils, dust and other surface contaminants.

### Diamond Grinding / Polishing

Application typically is performed between the 80 and 400 grit stages depending on the surface conditions and the tools used.

Use a low pressure sprayer to apply Lythic Densifier to form an even sheen across surface to ensure complete saturation of surface. Apply enough Lythic Densifier to keep the surface wet for 15 to 20 minutes. Let surface dry 1 hour before continuing.

### New Concrete (Green)

Lythic Densifier may be applied to newly installed concrete after final trowel while slab is still Green. Slab must be clean and free of all materials such as curing compounds, bond breakers, release oils, dust and debris, etc. Use a low pressure sprayer to achieve a consistent, even application and consistent coverage of the surface. Reapply as necessary to keep surface wet for 20 minutes. Let surface dry. No cleaning, flooding, neutralizing, or rinsing is necessary.

### 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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