



LIFE PAINT

PRODUCT SPECIFICATIONS



EPOXIES

LD12VAPOR EPOXY PRIMER VAPOR SEAL

Description

Life Paint Vapor Seal is a two component, 100% solids, low viscosity, moisture accepting epoxy primer. It has an ability to reduce the hydrostatic pressure emitted by the floor from 12 lbs per 1000 square feet to less than 1 lb. Life Paint Vapor seal can even cure underwater without affecting its adhesion. When applied at 73°F / 50% humidity, Life Paint Vapor Seal is a 5-7 hour cure.

Uses

Life Paint Vapor Seal can be used to prime concrete, metal, and wood. Corrosion inhibitors can be added (by special request) for use over metal substrates. It is an excellent all around concrete primer/sealer with incredible adhesion.

Advantages

- Meets USDA criteria
- 100% Solids
- Low Viscosity
- Chemical Resistant
- High Build
- Moisture Tolerant
- Convenient 2:1 Mix; A:B=2:1
- Superior Adhesion

Coverage

Life Paint Vapor Seal covers up to 300 sq.ft. per gallon under normal conditions, which will achieve 5.2 dry mils. Life Paint Vapor Seal may be applied at a heavier rate to achieve a higher build system or to accommodate the broadcasting of aggregates.

Colors

Available pigmented in any of our standard colors. Clear is also available, but has an amber hue.

Packaging

- 1 1/2 gallon kits
(1 gallon part A to 1/2 gallon part B)
- 15 gallon kits
(10 gallons part A to 5 gallons part B)

Inspection

Concrete must be clean and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be at least 2500 psi and feel like 30-grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 10 days cured is required on all concrete. Before starting flooring work, test existing concrete slab for efflorescence, moisture, and hydrostatic pressure.

Surface Preparation

Prepare the surface by shot blasting. All expansion joints should be honored. Cracks should be chased with a diamond crack chaser (approximately 1/4" x 1/4"), swept or blown clean. Surface should feel like 30 grit sandpaper and be porous enough to absorb the primer. Lightly misting the floor with water can help promote adhesion. Avoid puddling.

Mixing

Mix 2 parts A with 1 part B (by volume) of Life Paint Vapor Seal together for 3 to 4 minutes with a slow speed drill mixer. For best penetration into concrete, thin by adding up to 1 quart of acetone to each 1.5 gallon kit. Thinned material must be applied at less than 5 mils (and not puddle) to cure properly. The Life Paint Vapor Seal will have approximately 20 minutes of working time.

Application

As a primer: Immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a trowel or squeegee and back roll using a 1/4" nap non-shedding roller. Thinned material must be applied at less than 5 mils (and not puddled) to cure properly.

Life Paint Vapor Seal can be applied as an intermediate coat for extra protection from hydrostatic pressure: Mix and apply without solvent at the desired thickness using a notched trowel or squeegee and backroll using a 1/4" nap non-shedding roller.

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Drying Time

You may re-coat as soon as the surface is dry to touch or in about 8 hours (but not later than 48 hours). Light foot traffic may be permitted in 24 hours, light vehicle traffic in 72 hours, heavy traffic in 7 days. All times are based on average temperature of 70 degrees and 50% humidity. Cooler temperatures will increase drying time.

Limitations

- Do not apply at any temperature below 50° F or above 95°F.
- Concrete must be cured for a minimum of 10 days and have less than 15 lbs of moisture per thousand square feet.
- For interior use only unless protected by a UV resistant coating such as urethane.
- Do not apply over concrete under hydrostatic pressure.
- Epoxy must be cured for a minimum of 24 hours before coming in contact with water.
- Concrete should be a minimum of 2500 psi.

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| Mix Ratio, By Volume | 2 parts resin / 1 part hardener | | | |
| Test Temperature / Relative Humidity | 41°F / 80% | 59°F / 60% | 73°F / 50% | 95°F / 35% |
| Mixed Viscosity, cP | <4000 | 2,800 | 1,350 | 500 |
| Gel Time (100g mass), minutes | 699 | 393 | 139 | 56 |
| Tack-free Time, hours | >24 | 8 | 5.5 | 2.5 |
| Dry Through Time, hours | >24 | 10.5 | 7 | 3.5 |
| Visual Appearance | Uncured | Semi-gloss | Glossy | Glossy |

Mechanical Properties

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|--|-------------------|
| Pencil Hardness | 2H |
| Persoz Hardness, seconds | 200 |
| Cross-cut Adhesion | 5A |
| Impact Resistance (D/R), in lb. | 30 / 2 |
| Elcometer Pull-off Adhesion ASTM D4541 | 553 psi (average) |