

LIFE

SPECIALTY COATINGS

Thin Film Epoxy

100% Solids - Resinous Floors

Specification Guide

Standard 2:1 Epoxy

Description

Life Deck epoxy interior floor system is a 2 component, pigmented, low odor, low viscosity 100% solids cyclo-aliphatic for use in areas that require chemical resistancy and strong durability.

Uses & Recommended Surfaces

For interior use only unless protected by another product with a UV inhibitor such as our aliphatic urethane. Uses include industrial floors in factories, restaurant kitchens, schools, hospitals, food processing, garage floors, dairies and warehouses.

- Interior Concrete Floors
- Industrial Floors
- Garages
- Showrooms
- Warehouses
- Kitchens
- Restaurants

Features

- Low Odor
- USDA Compliant
- Fast Drying
- Epoxy Toughness
- Superior Flow
- Excellent Adhesion
- Excellent Chemical and Solvent Resistance

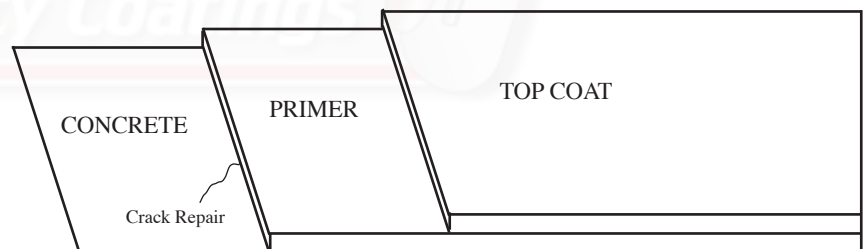
Products

100% Solids Pigmented Epoxy.

- Primer- 200-300 square feet per gallon
- Top Coat- 200-300 square feet per gallon

LD7200 100% Solids

- Crack Filler/Patching



Physical Properties & Chemical Test Data

Gel Time (100g mass/mins.)-----38 (average)

Tensile Strength* (psi)-----7400

Tensile Elongation % -----4.9

Heat Deflection Temperature C* --47

Shore D Hardness*-----87

Barcol Hardness*-----74

Bond Strength psi -----1200

(mild steel to mild steel)

Thin Film Set Times, hrs.(70 °F) --4.5

Flexural Strength (psi)-----5350

* Properties determined after 7 days cure at 77° F

10% Acetic Acid-----Moderate Effect

Toluene-----Slight Effect

Xylene-----Slight Effect

Ethanol-----Slight Effect

Skydrol-----Slight Effect

70% Sulfuric Acid-----No Effect

Bleach-----No Effect



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Inspection

- Surface must be structurally sound, dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. Surface must be porous and profiled (See *Preparation* section.) 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 28 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTM F-2170).
- Before starting flooring work, test existing concrete slab to make sure there is no efflorescence, moisture and/or high levels of alkalinity.
- Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for an epoxy flooring installation in accordance with the latest edition of ASTM F 1869, *Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*.
- Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the applicator. Life Paint bears no responsibility for failures due to any of the above conditions.

Surface Preparation

Cleaning

Clean surface entirely with TSP and rinse completely with water several times. Remove mildew or algae using 50/50 blend of household bleach and water. (Do not allow bleach to come into contact with acid). Read bleach instructions and warnings carefully before using. Rinse thoroughly and allow to completely dry.

Crack Preparation

Use a concrete diamond blade to cut out all cracks and joints to 1/4 inch width and 1/4 inch depth. Clean joints thoroughly and remove all concrete dust and debris.

Etching

- Clean surface entirely with TSP and rinse completely with water several times. Remove mildew or algae using 50/50 blend of household bleach and water. (Do not allow bleach to come into contact with acid). Read bleach instructions and warnings carefully before using. Rinse thoroughly. The surface must be porous enough to allow the product to soak in. Surface should feel like 30 grit sand paper.
- Prepare surface by either shotblasting, grinding, Liquid Grind™ (approved liquid etch) or, if a previous coating is currently installed, sanding. Prepare concrete profile equal to CSP 2-3 as specified by ICRI (International Concrete Repair Institute). When using a mechanical method, be sure not to be too aggressive leaving behind grind marks or grinding it to a smooth surface.

Crack Fill/Patching Installation

Using LD7200 Crack Patch, mix paste by equal volume 1:1. LD7200 is mixed thoroughly when combined product is completely gray. Apply to crack, joint, or spalled area using a putty knife or trowel, completely filling the space, scraping off extra LD7200 to leave a uniform, level finish. When dry, sand or grind smooth if overfilled. Surface will be ready to prime in 4-6 hours.



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Note

■ *When working with epoxies, subsequent coats, or recoats, must be completed before 48 hours after the previous application. If not, sanding of the cured application is recommended to ensure subsequent coat adhesion.*

Primer

In a clean and dry bucket, thoroughly mix two parts A with one part B of LD 12 Series epoxy together by volume. Combine using an agitator, jiffy mixer or stir stick. Mix for at least 2 minutes or until completely combined, scraping the sides and bottom of mixing bucket. Only prepare the amount you can use in 25 minutes or less (larger batches than 1.5 gallons may short pot life.) The primer is ready to be applied by brush, roller, or squeegee. If using a squeegee, be sure to back roll for uniform coverage. Coverage should be approximately 200-300 sq. ft. per gallon.

Top Coat

In a clean and dry bucket, thoroughly mix two parts A with one part B of LD 33 Series epoxy together by volume. Combine using an agitator, jiffy mixer or stir stick. Mix for at least 2 minutes or until completely combined, scraping the sides and bottom of mixing bucket. Only prepare the amount you can use in 25 minutes or less (larger batches than 1.5 gallons may short pot life.) The top coat is ready to be applied by brush, roller, or squeegee. If using a squeegee, be sure to back roll for uniform coverage. Coverage should be approximately 200-300 sq. ft. per gallon.

Thinning

100% Solids epoxy may be thinned up to 1 quart of a solvent such as acetone or xylene for ease of application.

Optional Materials

For a faster dry time of the Top Coat, the LD 31 Series can be used in direct replacement of the LD 33 Series.

Additional Top Coats

- 31-96 Clear water based epoxy. Adds extra durability and protection to final color coat.
- LD2003 CRU Chemical Resistant Urethane. Adds superior chemical resistance, abrasion tolerance, scratch resistance, UV protection and damage protection to the final color coat. Available in gloss (LD2003) or satin (LD2004).
- LD2009 Polyurea. Adds chemical and abrasion resistance, protects final color coat from damage and UV resistance. Available in a 2 hour (LD2009), 4 hour (LD9750), or 12 hour (9790) dry time.

Anti-Slip

- Safe T Grip. Adds a soft, light texture to help prevent slip. (3 oz by weight per gallon.)
- E263. Adds a more aggressive texture to help prevent slip even while wet. (1 pound by weight per gallon.)
- While mixing components A & B of the final coat, add anti-slip aggregate by mixing the appropriate amount.



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■ Please refer to individual product technical sheets for more detailed product information on all products within this specification.

Clean Up

Uncured material can be removed with a solvent. Cured material can only be removed mechanically.

Limitations

- Temperature/Weather: Do not install if the temperature is below 55 degrees.
- Water will ruin uncured products. If inclement weather threatens, cover area to protect new application.
- Do not allow any product to FREEZE while in container.

Maintenance

Floors should be inspected during use for inconsequential damage and wear. Damage areas should be remediated as soon as possible to prevent further damage to the area(s). To repair, remove any loose coating and refer to this specification; repeat process in affected area.

Clean daily using a dry soft bristled broom, dry mop, or wet mop with a floor/tile cleaner, to retain the epoxy looking new.

Health, Protection and Safety

Refer to individual product container labels, individual product technical data sheets, and SDS for health, protection, and safety precautions.

Warranty

When the warranted product is applied in accordance with this specification guide, label instructions and common sense widely accepted painting practice and procedures, Life Paint will warrant said product against manufacturing defects that might cause premature failure such as blistering, peeling, or unusual wear. Directions are as complete as possible but cannot encompass all conditions, applications, and/or surfaces beyond manufacturer's control. In the event of a warranted failure and upon the presentation of proof of purchase, the remedy will be the provision price for said product. This warranty does not include labor or the costs associated with labor. This warranty may not be transferred or assigned and extends specific legal rights which may vary from state-to-state. No other warrantee is expressed or implied. Life Paint Company, Santa Fe Springs, CA (562)944-6391.

