

LIFE

SPECIALTY COATINGS

VS Chip Epoxy Floor

Paint Chip Finish - Resinous Floors

Specification Guide

Vapor Seal Epoxy & Polyurea

Description

Life Deck Specialty Coatings VS Chip Epoxy Floor provides an extremely tough and chemical resistant floor with a decorative paint chip finish. This system should be applied by professional applicators who are familiar with 2-component coatings with fast gel and set times.

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, schools, hospitals, garage floors, and warehouses.

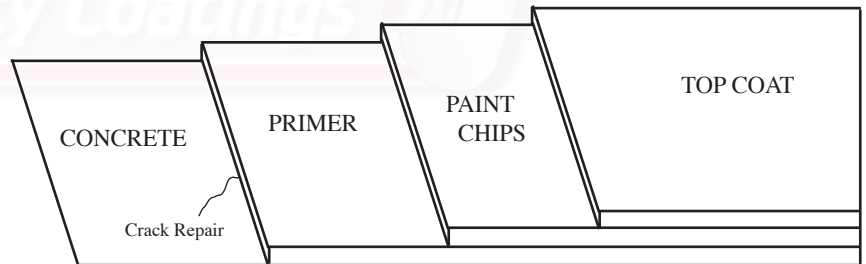
- Interior Concrete Floors ▪ Industrial Floors ▪ Garages
- Showrooms ▪ Warehouses ▪ Restaurants

Features

- Fast Dry ▪ USDA Compliant ▪ Non-Slip ▪ UV Resistant
- Decorative ▪ Excellent Adhesion ▪ Excellent Chemical and Solvent Resistance

Products

- LD12VAPOR 100% Solids Pigmented Epoxy.
 - Primer- 200-300 square feet per gallon
- LD2009 Polyurea
 - Top Coat- 200-300 square feet per gallon
- LD7200 100% Solids
 - Crack Filler/Patching
- LDPC Paint Chips



Physical Properties & Chemical Test Data

Gel Time (100g mass/mins.)-----15 (average)	50% NaOH (Sodium Hydroxide)-----No Effect
Tensile Strength (psi) -----7550	10% Acetic Acid-----No Effect
Tabor Abrasion 1000gm/1000 cycles--5% weight loss	30% NH3 (Ammonia)-----No Effect
Reverse Impact (top coat)-----<10 FT-LB	Xylene-----No Effect
60° Gloss (ASTM D-1308): ----->90	Brake Fluid-----Becomes Tacky
Pendulum Hardness -----168 seconds	MEK-----Becomes Tacky
Cross-Hatch Adhesion -----5 (best)	Coffee (115°F)-----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 LD12VAPOR 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 12-15 minutes or less (larger batches than 1.5 gallons will shorten pot life.) The primer is ready to be applied by squeegee. When using a squeegee, be sure to back roll for uniform coverage and brush the edges and corners. Coverage should be approximately 200-300 sq. ft. per gallon.

Paint Chips

The LDPC Paint Chips are installed during the application of the primer, LD12VAPOR. While the primer is still wet, broadcast LDPC in to the air about head high, or slightly higher. LD12VAPOR can be walked on using spiked shoes, while it is wet. Use at least 10 pounds of LDPC per 100 square feet of surface, fully covering the surface floor. When LD1204 is cure, approximately 4 hours, lightly scrape the LDPC to remove any high points, sweep, and remove all loose LDPC.

Top Coat

In a clean and dry bucket, thoroughly mix one part A with one part B of LD2009 Series polyurea 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 15 minutes or less (larger batches than 1 gallon will 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 200-250 sq. ft. per gallon.

Optional Materials

Additional Top Coats

- LD2003 CRU Chemical Resistant Urethane can be used in replacement of LD2009, however, dry and cure times will be slower. Adds superior chemical resistance, abrasion tolerance, scratch resistance, UV portection and damage protection to the final color coat. Available in gloss (LD2003) or satin (LD2004).

Anti-Slip

Note- *The VS Chip Epoxy Floor has a natural texture. Adding more anti-slip materials is not usually necessary but can be added if needed.*

- 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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Note

■ 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.

