

LIFE

SPECIALTY COATINGS

Auto Life

Waterproofing- Parking Deck

Specification Guide

Urethane

Description

The Autolife vehicular deck system is an aromatic urethane, liquid applied, moisture cured waterproof system. The system utilizes an epoxy primer and one easy to use high tensile aromatic urethane to complete the system. There is an optional aliphatic top coat for UV exposed surfaces. The Auto Life System is a user friendly application of an elastomeric coating that is tough and durable. The Auto Life System can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on vehicular traffic decks. It is designed to expand and contract with normal structural movements and will not soften in heat nor embrittle in cold. Installed and maintained properly, the Auto Life Vehicular Deck System will ensure years of service.

Uses & Recommended Surfaces

For non-UV exposed surfaces only unless protected by another product with a UV inhibitor such as our aliphatic urethane.

- Concrete Parking Decks

Products

LD2180 Series Pigmented Epoxy

- Primer- 250-300 sq ft per gallon

LD 246 Urethane

- Multiple Coats- 100 sq ft per gallon

LD 221 Urethane, UV resistant

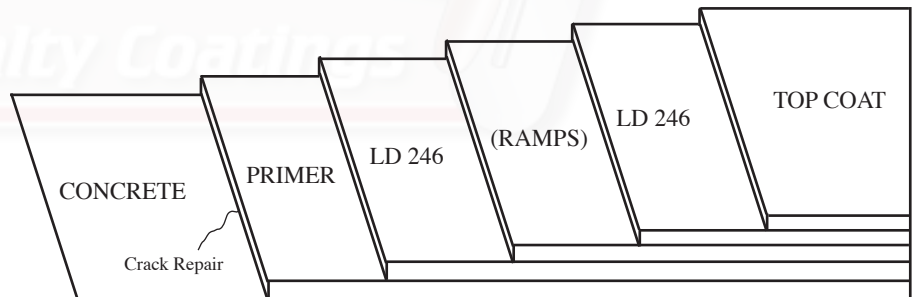
- Top Coat- 100 sq ft per gallon

LD7200 100% Solids

- Crack Filler/Patching

SILICA SAND

- Broadcast Texture



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.



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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.

Primer

In a clean and dry bucket, thoroughly mix one parts A with one part B of LD2180 Series epoxy together by volume. Combine using an agitator, jiffy mixer or stir stick. Mix for at least 3-5 minutes or until completely combined, scraping the sides and bottom of mixing bucket. Only prepare the amount you can use in 1 hour or less (larger batches than 2 gallons may shorten pot life.) The primer is ready to be applied by brush, airless sprayer, or roller. Coverage should be approximately 250-300 sq. ft. per gallon. Allow a minimum of 8 hours to dry before moving on to the next step. Do not allow 48 hours to pass before moving on to the next step.

Intermediate Coat

Apply catalyzed LD246 to substrate at a rate of 1 gallon/80 sq. ft. For best results use a notched trowel or squeegee. A phenolic core roller may be used but extra care should be taken to prevent air bubbles. Spread mixed LD246 evenly over the entire deck resulting in a 14 ± 2 dry mils (355 ± 51 microns) thick membrane. Allow Autolife to cure a minimum of 16 hours and maximum of 48 hours.



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Ramps, Turning Radii, and Heavy Traffic Areas

Over ramps, turn radii, and other heavy traffic areas only, apply catalyzed LD246 at a rate of 1 gallon/100 sq. ft. Immediately broadcast washed, dry, rounded, crystal silica sand, 16 or 20 mesh (0.0331-0.0469 in.; 0.84-1.19 mm), 6.5+ Moh's minimum hardness at a rate of 10 lbs/100 sq. ft. or to refusal. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane, exclusive of aggregate. Before proceeding to next coat, allow Auto Life to cure a minimum of 16 hours and a maximum of 48 hours.

2nd Intermediate Coat

Apply a second coat of catalyzed LD246 over the entire surface, including heavy traffic areas, at a rate of 1 gallon/80 sq. Immediately broadcast washed, dry, rounded, crystal silica sand, 16 or 20 mesh (0.0331-0.0469 in.; 0.84-1.19 mm) at a rate of 10 lbs/100 sq. ft. This coat will result in an additional 14 ± 2 dry mils (355 ± 51 microns) thick membrane, exclusive of aggregate. Before proceeding to next coat, allow LD246 to cure a minimum of 16 hours and a maximum of 48 hours.

Final Coat

Apply the third coat of catalyzed LD246 (non-UV exposed) or LD221 (UV exposed) at the rate of 1 gallons/100 sq. ft. over the cured Auto Life with aggregate. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane. At 70°F (21°C) and 50% relative humidity, allow 24 hours before permitting light foot traffic. Keep all vehicular traffic off the finished Auto Life vehicular deck system for at least 72 hours.

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.

Health, Protection and Safety

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



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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.

