

LIFE

SPECIALTY COATINGS

TC Smooth System

Concrete Resurfacing

Specification Guide

LD Cements & Top Coat

Description

TC Smooth Overlay is a cost-effective, cementitious and acrylic material formulated to cover existing concrete surfaces. It changes old concrete into a smooth surface that can be decorated with stains or left as is with a sealer.

Uses and Recommended Surfaces

The TC Smooth Concrete Overlay system's main function is to cover concrete that is aesthetically unattractive. It is a low cost, easy to apply and very durable system. Designed for driveways, walkways, patios, garage floors and pool decks. TC Smooth Overlay can be installed in both the commercial and home environment.

Features

- Fast Drying
- Can Be Stained
- Attractive
- Unlimited Colors
- Heat Reflective Available
- Non-Haz

Products

LD-81 Modifier

- Primer- 200-300 sq ft per gallon

LD-1 Cement

- Slurry Coat- 125 sq ft per batch

LD-2 White or LD-5 Gray Cement

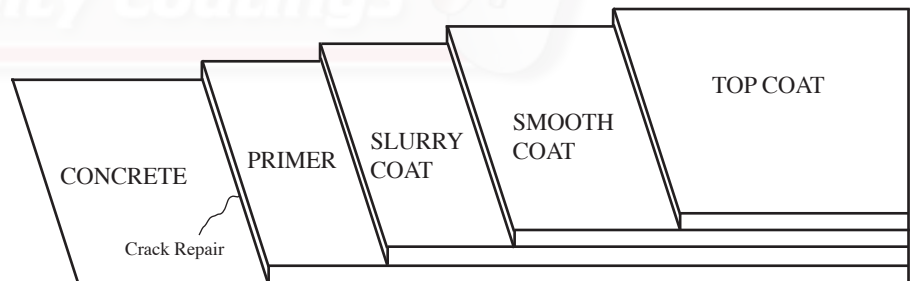
- Smooth Coat- 125 sq ft per batch

Seal Coat

- Clear or Pigmented

LD7200 100% Solids

- Crack Filler/Patching



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*.



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12927 Sunshine Avenue, Santa Fe Springs, CA (562) 944-6391 www.lifedeck.biz

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* Note

- Drainage problems or puddling should be corrected prior to the installation of TC Overlay System.

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.

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.

Another way to treat cracks is to cut a pattern using a special diamond crack chaser. While the slurry is being done, clean out expansion joints and cracks with a margin trowel. Then, simply recut these cracks and incorporate a pattern, making and designing the cracks, and new cuts throughout the application.

Primer

In a clean, dry container, mix four parts water with one part LD-81 and apply at a rate of 200-300 square feet per gallon. Roll or spray this primer over the area to be resurfaced. Life Deck's 25 Series Pigmented water based epoxy may also be used as a prime coat (see optionals for application.)

Slurry Coat

After primer is dry, mix the slurry coat by combining one bag of LD-1 cement with one gallon of LD-81 acrylic and up to one quart of water. Trowel the slurry mix over the surface to achieve a smooth finish. Coverage of the slurry coat is approximately 100-125 square feet per batch. Using a brush, wet with water, feather all outside edges, seams and expansion joints. After surface is dry, scrape or grind off any ridges or trowel marks.



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Smooth Coat

Combine bag of Life Deck LD-2 White cement, or LD-5 Light Gray Cement, with one gallon of Life Deck LD-81 acrylic and mix thoroughly with a low rpm drill motor. Add up to one quart of water to achieve the desired consistency.

Optional Stain

At this point, application can be stained, if so desired, or left as is and then sealed. Use Life Deck Specialty Coatings 20 Series stain to create a natural mottled appearance. The 20 Series stain will create different natural hues of the color in the cement and not hide imperfections. Apply the 20 Series with a garden sprayer or roller. Use a soft bristle push broom to move the 20 Series around the cement application and work in. Applying the 20 Series stain in hot weather, or direct sunlight, can result in roller marks. Multiple coats will result in a darker appearance. Using multiple colors will result in a more mottled appearance. Multiple coats can be applied wet to wet or when previous coat has dried.

Seal Coat

If stained, or left as is, application must be sealed with a clear sealer. See “Optional Materials, Additional Top Coats.” Two coats of the clear sealer are recommended.

Top Coat, Pigmented, 10 Series or 28 Series

If desired, after the Smooth Coat, the pigmented top coat, 10 or 28 series, can be applied. Mix all containers of the Life Deck 10 Series or 28 Series Top Coat to insure a consistent color. Product may be thinned by adding 1 pint of water per gallon to avoid streaks, especially in hot weather. Roll two thin applications of Life Deck Top Coat using a 1/2” roller at a rate of 200-300 square feet per gallon. Spread the Top Coat in two directions to achieve a uniform finish. Coverage will vary according to texture. Two coats are recommended. Allow 4 to 6 hours drying time before permitting light pedestrian traffic. For best results, allow to cure 24 hours before direct traffic is permitted. Allow an additional 24 hours before heavy objects are placed on the surface.

Optional Materials

Additional Top Coats

- 4001 Urethane/Acrylic. Adds extra durability, chemical resistance, stain protection, mar resistance and longevity to final color coat. Available in gloss (4001) or satin (4002).
- LDGPD. Adds excellent hot tire resistance and tire marking resistance, extra durability, chemical resistance, stain protection, mar resistance and longevity to final color coat. Available in gloss (LDGPD) or satin (LDGPDS).
- 2114 Single Component Urethane. Adds extra durability, chemical resistance, stain protection, mar resistance, and longevity to final color coat. Available in gloss (2114) or satin (2116).
- 2110 Clear water based urethane. Adds excellent chemical resistance, UV resistance, mar resistance, protection and longevity to the final color coat. Available in gloss (2110) or satin (2112).



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Note

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

Limitations

- Do not buildup material as it is more likely to come loose than a thin overlay.
- 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.
- Honor all expansion joints. Do not cover or try to hide them.

Maintenance

- Most stains clean up with TSP and water. Use only a bristle scrub brush.
- The TC System Overlay deck should be resealed with Life Deck Specialty Coatings Top Coat every 2 to 4 years depending upon ultraviolet exposure from the sun.

Clean Up

Uncured material can be removed with soap and water. Cured material can only be removed mechanically.

Repairs

Repairs may be done by grinding off the damaged area and replacing the material as written in this specification.

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. Cracks in the subsurface will telegraph through and are not covered under any warranty. 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.

