



LIFE™

Product Specifications

LD3100

100% Solids

Epoxy Floor System

Product Description and Use: Life Deck epoxy interior floor system is a 2 component low odor, low viscosity 100% solids cyclo-aliphatic for use as a high-build system. Use on seamless industrial floors as a high-build slurry filler system or in combination with color quartz or paint chips for decorative topping when a clear, high-build finish is required.

Chemical Composition: Modified Bisphenol A epoxy resin crosslinked with aliphatic and cycloaliphatic polyamines.

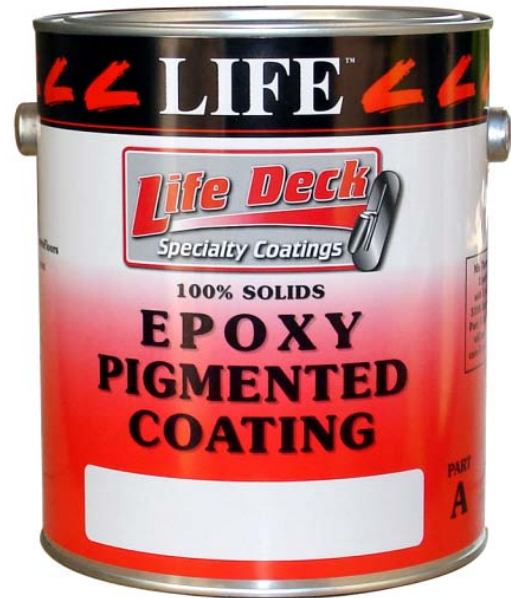
Colors: White, tinting bases, 5 standard colors and clear are available. Custom colors available upon request.

Advantages

- Exhibits low viscosity, good color stability, excellent gloss and good chemical resistance.
- Intended for curing at room temperature but curing may also take place at relatively low temperatures and under high humidity conditions.
- Excellent non-blushing characteristics.

Preparation: The most common reason for coating failure is lack of preparation. For maximum durability the surface must be slightly porous and free of dirt, oil, chalk and other foreign matter. Shotblasting is the most reliable method for surface preparation. One may also prepare the surface by sanding, grinding or bead blasting to achieve a clean, porous and uniform surface that will allow product to soak in and bond permanently. The surface should feel like 30 grit sand paper. Muriatic Acid (blended 1:4 with water) may be used to etch concrete and will require baking soda or soda ash to neutralize. (Please use caution when working with acid. Read and follow all warnings and instructions on label). 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, rinse thoroughly. The surface must be porous or rough enough to allow the product to soak in and completely dry.

Mixing Procedure: Mix 2 parts A with 1 part B by volume into a clean mixing container. Mix the epoxy with a slow speed drill with a mixing paddle attachment. Blend for 3 to 4 minutes. Carefully scrape the sides and bottom of the pail during mixing. After mixing thoroughly, immediately pour the blended mixture onto the horizontal surface and spread



evenly over the area to be coated. Please note: Large batches of epoxy will cure much faster in hot weather than cold weather. We do not recommend applications at temperatures over 90°F. Do not prepare mixtures of more than 1-1/2 gallons.

Primer: Prime the surface using Life Deck 1200, 25 series or 14 series primer. (See Specification sheets.)

Application: A notched trowel or squeegee is the best way to spread the epoxy evenly. In most cases, a brush is used to cut in and a 1/4 inch nap mohair or shed-free roller is used for the main area. Begin by cutting in the edges and trim with the brush. The center may be done like you would normally paint a surface, being sure to overlap and back roll each area carefully.

Drying Time: Dry to touch 8-10 hours @ 77°F 50% humidity. Recoat after 24 hours @ 77°F 50% humidity. Allow light foot traffic after 24 hours @ 77°F 50% humidity. Allow vehicular traffic and other heavy traffic after 72 hours @ 77°F 50% humidity.

Top Coat: There are several choices for a Top Coat depending on gloss desired, chemical and abrasion resistance and desired look. The 3100 will work well as a Top Coat and as a slurry or filler coat. Apply with a 1/4" non-shedding or mohair type roller @ 200 sq. ft. per gallon. To achieve a non skid surface, 8 oz. to 16 oz. of anti-skid

additive may be added per gallon. Be sure to keep aggregate mixed well by stirring occasionally.

Limitations: Application at ambient temperature below 50° F is not recommended. Exposure to temperatures exceeding 160° F for prolonged periods is not recommended.

Clean-Up: Removed uncured 3100 from tools and equipment with a suitable solvent. Cured material may only be removed mechanically.

Storage: Store in a dry area, between 50° F and 95° F. Protect from direct sunlight.

Health Precautions:

Please read Material Safety Data Sheet before beginning work with this product

Component A - IRRITANT - Prolonged skin or eye contact may cause sensitization and irritation.

Component B - IRRITANT - Contact with skin or eyes may cause severe burns.

First Aid:

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush immediately with clean water and contact a physician.

Respiratory Problems: Remove affected person to fresh air immediately and contact a physician.

Hygiene: Wash hands immediately after use. Wash clothing before reuse.

Spills: Collect with absorbent material. Remaining film may be removed with a suitable solvent.

Disposal: Dispose of in accordance with local, state and federal regulations.

WARNING

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR PROFESSIONAL USE ONLY BY A QUALIFIED TECHNICIAN. Consult the Material Safety Data Sheet for further health and safety information.

Technical Data Test

Type -----	3100
Viscosity (cps.) -----	700
Gel Time (100g mass/mins.) -----	38
Tensile Strength* (psi) -----	7400
Tensile Strength* (ksi) -----	n/a
ASTM-D-638-86	
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)	
Color (Gardner) -----	<1 (clear only)
Thin Film Set Times, hrs.(70 °F) -----	4.5
Flexural Strength (psi) -----	5350
* Properties determined after 7 days cure at 25° C	

Chemical Resistance

Excellent against

- Water
- Dilute mineral acids
- Alkalies
- Detergent solutions
- Certain solvents including 1,1,1-trichloroethane

Moderate against

- organic acids
- denatured alcohol
- certain hydrocarbon solvents including toluene

Poor against

- ketones
- glycol ethers

0 grams/liter is the maximum V.O.C. of Part B

0 grams/liter is the maximum V.O.C. of the "A" and "B" Mixture of this product

This product contains chemicals known to the State of California to cause cancer, birth defects and reproductive harm. WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. Contact the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. CAUTION: Do not take internally. Close container after each use. KEEP OUT OF REACH OF CHILDREN. NON-PHOTOCHEMICALLY REACTIVE.



LIFE™

Product Specifications

LD3100 Liquid Granite Floor System Broad Casted Color Chips Interior System



Description: Liquid Granite is a 100% solids epoxy, floor coating system with acrylic chip sprinkled into the pigmented base coat and sealed with clear epoxy or urethane top coat.

Uses: Liquid Granite is designed to be used on showroom floors, restaurant floors, garage floors, recreation rooms, washrooms and kitchens. Liquid Granite is a decorative, durable and chemical resistant coating which makes it perfect for residential, commercial and industrial applications.

Advantages

- Chemical Resistant
- Durable
- Decorative
- High Build
- Seamless
- Easy to Clean
- USDA Approved
- Choice of Colors

Packaging:

3100 epoxy, 1200 Epoxy: 1-1/2 gallon kits
Paint Chips: 10 lb. bags. & 55 lb. boxes

Inspection: Surface must be structurally sound, dry and free of oil, grease, curing, agents, dirt, dust or any other foreign material that may prevent proper adhesion.

Surface Preparation: Prepare the surface by sanding, grinding, water blasting, sand blasting or shot blasting. 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, rinse thoroughly. Cracks should be filled with LD7200 Epoxy Paste according to the manufacturer's instructions. All expansion joints should be honored and filled with 7100 Epoxy Joint Filler or equivalent.

Primer Application: Apply LD 1200 epoxy primer at the rate of 300 sq. ft. per gallon. Allow to cure overnight. Be sure to read the Product Data Sheet for application procedures.

Base Coat Application: Apply LD 3100 pigmented epoxy base at the rate of 175- 225 sq. ft. per gallon. Broadcast pre-mixed color chips into the wet base coat until no shiny spots are evident, approximately 10 sq. ft. per pound. After the base coat has cured, sweep excess chips and sand or scrape aggressively with drywall scraper. Sweep again and vacuum loose chips.

Application Top Coat: If application is interior, apply LD 3100 Epoxy at approximately 150-200 sq. ft. per gallon. If application is exterior, apply LD CRU (Chemical Resistant Urethane) at approximately 200 sq. ft. per gallon. After first coat has dried you may sand or scrape rough spots and apply a second coat of LD3100 Epoxy or LD CRU (Chemical Resistant Urethane) at approximately 200-300 sq. ft. per gallon. Be sure to read the Product Information Sheet for application procedures.

Protection of Finished Work: Prohibit traffic on floor for 48 hours after installation. Avoid heavy abrasion and chemical exposure for 5 days.

Limitations

- Be sure to read individual product info sheets.
- Do not apply in temperatures below 50° F or temperatures above 95° F.
- For interior use only unless protected by a UV resistant coating.
- Heavier top coat may become slippery.

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

Maintenance: Floor should be cleaned with water or a mild, non-filming detergent. For difficult stains, paint thinner may be used without harming the finish. A slip coefficient type wax may be applied periodically to make floor less slippery.

Warranty: Manufacturer shall guarantee that the materials are free from defects and comply with the published specifications. Applicator shall warranty against faulty workmanship for a period to be named on the contract or proposal for the project.

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