



LIFE PAINT

PRODUCT SPECIFICATIONS



EPOXIES

LD33 100% SOLIDS EPOXY 2:1, 6 Hour Dry

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 solid color, high-build slurry filler system or in combination with color quartz, powdered metallics, or paint chips for decorative options.

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

Colors:

-00 White	-27 Deep Tan
-40 Travatan	-41 Cape Cod Gray
-42 Stone Gray	-78 Sandy Beige
-96 Clear	-Tint Bases.

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 a Life Deck SPecialty Coat-ings 100% solids epoxy primer. (LD12VAPOR, LD12, LD12-04, or LD12-02.)

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 6 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.

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 LD33 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 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.

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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

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

Handling	Part A	Part B
HMIS		
Health	2	3
Flammability	1	1
Reactivity	0	0
PH	7.8	11.0