

LIFE

SPECIALTY COATINGS

LD221

Aliphatic Urethane

Product Data Sheet

Top Coat

DESCRIPTION:

LD 221 is a single component, liquid applied, moisture-cured, polyester, aliphatic urethane polyurea coating. LD 221 is a waterproofing topcoat used in the Life Deck Auto Life or LD2000 System. LD 221 may be used on concrete or plywood requiring waterproofing, resealing existing urethane surfaces, surface protection for athletic tracks, or for surfaces that require a seamless roof/deck system for protection from: oils / grease, ultraviolet light, concrete dusting, water damage, some types of chemical spills, heavy pedestrian or auto traffic.

PACKAGING:

1 Gallon and 5 Gallon Pails

ADVANTAGES:

Moisture Cured
Proven Protection
Excellent Durability
Excellent Abrasion Resistance
Seamless Waterproofing Membrane
Excellent UV Resistance - For Superior Gloss Retention
Optional Fast Cure with Added Accelerator

USES:

Airports
Helicopter Pads
Heavy Auto Traffic
Heavy Pedestrian Traffic
Stadiums
Concrete Decks
Parking Structures

CLEAN UP:

Environmentally safe solvent. Cured material may require grinding to remove.

COLORS:

White, Gray, & Tan (colorant is added at job application site.)

SURFACE PREPARATION:

When using the LD221 as a top coat over for a new system application, must be applied over LD246 (Auto Life) or LD220 (LD200). If applying over a previously applied urethane system, product must be used over a primer, Life Specialty Coatings water base epoxy primer, 25 series. For surface preparation, see recommended primer for "Surface Preparation."
Surface must be structurally sound, dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion.

WEATHER:

Do not install any product if the temperature is below 55°. Rain may damage uncured products. If inclement weather threatens, cover deck to protect new application. Do not allow any non-applied product to FREEZE.

COVERAGE:

LD221 should be applied at the rate of 1 gallon per 100 sq. ft.

MIXING:

Before application, mix LD221 using a mechanical mixer at slow speed until a homogeneous mixture and color is obtained. Use caution not to entrap air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix in an up and down motion.



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APPLICATION:

For best results uses a squeegee or notched trowel. Airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles. Apply LD 221 at the rate of 1 gallon per 100 sq. ft. Spread LD 221 evenly over the entire deck. Application should not be stopped part way across an area. Each application should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks to disfigure the deck. Most applications require two coats. A third coat may be necessary depending on the job specifications and requirements. To obtain proper adhesion between coats it is imperative that re-coating be done within 48 hours.

When LD 221 is used as a seal coat only, the surface must be clean, dry and primed with 25 Series to achieve proper adhesion to the surface.

Containers that have been opened must be used within 1 or 2 days since LD 221 is a moisture reactive material that begins to cure when exposed to air.

DRY TIME:

LD 221 is a moisture curing membrane and will cure faster in humid conditions and slower in drier conditions. Allow each coat to cure a minimum of 16 and a maximum of 48 hours between each coat. If more than 48 hours passes between coats, prime the surface with Life Deck 25 Series Epoxy before proceeding. Light foot traffic may be permitted in 6 hours, normal foot traffic in 24 hours and vehicle traffic in 48 hours. All times are based on average temperature of 70 degrees and 50% humidity.

TECHNICAL DATA:

TYPE:	Aliphatic Urethane	DILUENT:	Solvent
V.O.C.:	<100 grams per liter	SOLIDS:	79-81% Weight
DOT:	PAINT, Class 3, UN 1263		68-70% Volume
	PG III, FLAMMABLE LIQUID		

ELONGATION:	575%, ASTM D-412
TENSILE STRENGTH:	1050 PSI, ASTM D-412
TEAR RESISTANCE:	250 PLI, ASTM D-624
HARDNESS:	55 SHORE A, ASTM D-2240

