LIFE SPECIALTY COATINGS Est. 1963

# TOP COAT TECHNICAL DATA SHEET

# LD221
## Aliphatic Urethane

### 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.

### USES, FEATURES & BENEFITS
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

### PACKAGING
- 1 Gallon
- 5 Gallon

### COLORS
- Dolphin Gray
- Tan

All other colors come in a tint base and need to have color mixed In.
- Stone Grey
- Battleship Grey
- Indian Sand
- Brown
- Ash Brown
- Red

### TECHNICAL DATA:

| TECHNICAL DATA | | | |
|---|---|---|---|
| TYPE: | Aliphatic Urethane | DILUENT: | Solvent |
| V.O.C.: | <100 grams per liter | SOLIDS: | 79-81% Weight<br>68-70% Volume |
| DOT: | PAINT, Class 3, UN 1263<br>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 | | |

## DIRECTIONS

SURFACE PREPARATION: When using the LD221 as a top coat over for a new system application, must be applied over LD246 (Auto Life) or LD2000. 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.

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 degreesand 50%humidity.

DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and LIFE PAINT makes no claim that these tests or any other tests, accurately represent all environments.

Warranty: When the warranted product is applied in accordance with this technical data sheet, label instructions and common sense widely accepted painting practice and procedures, Life Specialty Coatings 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 Specialty Coatings Company, Santa Fe Springs, CA (562)944-6391