



LIFE™

Product Specifications



2000 50 Mil System

Moisture Cured Polyurethane

Description

The Life Deck 2000 Decking System is a specialized application of elastomeric coatings. This chemical resistant, moisture cured, polyurethane system is designed to expand and contract with normal structural movements. Years of service have proven the lasting qualities of this product in resisting weathering and abrasion. The Life Deck 2000 Decking system is durable and, with appropriate sand aggregate, provides a slip-resistant waterproofing system. It has an aesthetically pleasing monolithic surface that will not soften in heat or become brittle in cold. With the use of a catalyst the Life Deck 2000 Decking System can be accelerated to a two-day application. The Life Deck 2000 Decking System is a waterproofing system that can be used on a wide range of applications. Installed and maintained properly, this system will ensure years of waterproofing protection.

Uses

The Life Deck 2000 Decking System can be used over plywood or concrete where an elastomeric, chemical resistant, waterproof deck coating is needed. Designed for plazas, patios, sun decks, balconies, lanais, helicopter pads, walkways, stairs and parking structures. Regularly specified on homes, apartments, condominiums, hotels, office buildings and most commercial structures.

Advantages

- ✓Waterproof
- ✓Chemical Resistant
- ✓Elastomeric
- ✓Moisture Cured
- ✓Abrasion Resistant
- ✓Monolithic
- ✓Cost Effective

Packaging

25 Series	Quarts & 1 Gal kits
LD 220	1 Gal & 5 Gal pails
Lifeglaze AL	1 Gal & 5 Gal pails

Inspection

Plywood decks must be at least 3/4" ACX grade and installed with the finish side up. The deck should be tongue and groove and properly nailed (glued & screwed is best) to meet local building codes. The plywood shall have a maximum span of 16". Slope must be a minimum of 1/4" per linear foot. Please refer to Notice to Customer for Deck Coatings.

Surface Preparation

Be sure the surface is clean, dry and free of grease, paint, oil, dust or curing agents. Concrete should be cured a minimum of 28 days prior to installation and should be roughed up to the texture of 30 grit sandpaper.

Application

Crickets/Sloping

Sloping should always be done in the framing or in the concrete subsurface. This is the responsibility of the building owner and not the deck coating applicator. If sloping is requested it should be noted on the work order. The applicator along with manufacturer should not be held responsible for the outcome of these remedial measures to help correct these preexisting slope conditions. Crickets (reverse slope to divert water to drain) may be installed and sloping may be done using a Life Deck Concrete Patch. Concrete Patch is a mixture of LD81 with LD3 or LD1 cement (see Life Deck Concrete Patch specification for details). Galvanized metal lath should be stapled to the plywood to strengthen and help bond. When building up over concrete it must be rough enough for bonding (see surface preparation). Life Deck 7200 epoxy blended with aggregate may also be used to slope

Flashing

Use a minimum of 26-gauge bonderized sheet-metal. Flash at the junction of the wall and deck using 4" x 4" flashing. Flash the fascia with 2"x 4" flashing. Overlap all seams at least 4" and caulked in front and back with a Life Deck approved sealant such as Tremflex 25 or equivalent. Smooth uneven surfaces with Tremflex 25, Life Deck Concrete Patch or Life Deck 7200 epoxy patch. Nail all flashing every 4". Note: If the flashing is not bonderized it must be etched so that the coating will bond.

Primer Requirements

Prime the surface with Life Deck 25 Series epoxy primer. The first coat or primer coat should be cut back with water to insure maximum penetration of the surface. Premix each side A & B. Combine 1 quart of part A with 1 quart of part B and mix for 2 minutes. Then add 1 quart of water and mix for 1 more minute. Combine using an agitator, jiffy mixer or stir stick. The primer is ready to be applied by brush, spray or roller. Coverage should be approximately 200-300 sq. ft. (or 1 to 2 dry mils) per 3/4-gallon batch. Mix only what you will use within 2 hours. Discard unused mixed primer.

Plywood Joints/Concrete Seams and Cracks

Cracks or seams should be cleaned out, dry and free of debris. Life Deck Seam Tape (self-adhering) should be laid out over all cracks, seams, and plywood joints and at flashing. Open cracks should be routed out with a diamond crack chaser. Apply Rainbuster joint sealant into the tape with a trowel or putty knife to smooth. Allow joint sealant to become firm before applying base coat.

Base Coat

Apply LD 220 to substrate at a rate of 50 square feet per gallon. For best results use a notched trowel or notched squeegee and back roll to even out the material. Allow LD 220 to cure, usually 24 hours (or until firm enough to walk on) before additional coats.

Broadcast Coat

Apply a second coat of LD 220 at a rate of 100 square feet per gallon. Immediately broadcast the desired aggregate, such as #2-16 Monterey sand or #20 silica sand, at a rate of 100 lbs./100 square feet into the wet coat. (Sand aggregates should be washed and kiln dried) The aggregate should completely cover the surface. After 24 hours, remove loose aggregate by broom or vacuum.

Top Coat

Apply desired color of LD 221 Top Coat at a rate of 100 square feet per gallon. For best results use a squeegee and back roll to even out the material. Airless sprayer or phenolic core roller may be used but extra care should be taken to prevent air bubbles.

Optional Second Top Coat

Apply a second coat of LD221 Top Coat at a rate of 200 square feet. Allow 72 hours of cure time before permitting heavy traffic on the finished system.

Limitations

- ✓Do not apply this product on a grade.
- ✓Do not install if the temperature is below 55°F or above 95°F.
- ✓If inclement weather threatens, cover deck with a tarp or visquine to protect the material.
- ✓Do not allow any Life Deck product to freeze. Store material at 40°F - 110°F.
- ✓The amount and size of aggregate will vary the coverage of your top coat.

Clean Up

Uncured material can be cleaned up with solvent. Cured material can only be removed mechanically.

Maintenance

Most stains clean up with TSP and water. Use only a soft bristle scrub brush. Depending on UV exposure, Life Deck 2000 should have a new top coat every 2 to 4 years.

Warranty

Life Deck 2000 has a 5 year limited warranty and is valid only if the complete 2000 system is installed by a factory trained and licensed contractor and maintenance specifications are followed. Life Deck will replace any defective product proven to be the cause of deck failure. The Life Deck 2000 warranty shall not exceed the replacement cost of the defective material and does not include labor. All claims regarding product defects must be presented to Life Deck within 90 days of the alleged defect. The absence of a written claim during this period will constitute a waiver of all claims against the manufacturer. Warranty is void if subsurface or adjoining areas are not built to meet local building codes

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.



LIFE™

Product Specifications



LD220

Urethane Base Coat

Description

LD220 is a single component, liquid applied, moisture-cured, aromatic urethane polyurea elastomeric membrane. This waterproofing basecoat is used in the Life Deck 2000 Decking System.

Use

LD220 is used as the base waterproof membrane in the Life Deck 2000 waterproofing system and can also be used as a membrane under carpet or tile. It is ideal as a base membrane for walking decks, balconies and roof decks. LD220 is used in residential, commercial and industrial applications on surfaces such as concrete, plywood, metal and masonry.

Advantages

- ✓Economical
- ✓Moisture Cured
- ✓Proven Protection
- ✓Seamless Waterproofing Membrane
- ✓Optional Fast Cure with Added Accelerator
- ✓Chemical Resistant

Colors Tan

Packaging 1 & 5 Gallon Pails

Mixing

Mix LD220 using a mechanical mixer (Jiffy Mixer) at slow speeds. If mixed by hand stir for at least 5 minutes. Mix thoroughly until a homogeneous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture.

Plywood Joints/Concrete Seams and Cracks

Cracks or seams should be cleaned out, dry and free of debris. Life Deck Seam Tape (self-adhering) should be laid out over all cracks, seams, and plywood joints and at flashing. Apply Tremflex 25 joint sealant into the tape with a trowel or putty knife. Allow joint sealant to become firm before applying base coat. Open cracks should be routed out with a diamond crack chaser.

Application

Ensure that the substrate is properly prepared prior to application. Surfaces to be coated with LD220 must be dry, clean, free of foreign matter, and primed with Life Deck 11 Series. Primer is optional over new plywood. For best results use a squeegee or notched trowel. An airless sprayer or phenolic resin core roller may be used but extra care should be taken not to trap air, which may result in bubbles. Apply LD220 as described in the Life Deck 2000 Specifications. Spread LD220 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. Allow coating to cure a minimum of 16 hours and maximum of 48 hours before proceeding to subsequent coats. 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.

Drying Time

LD220 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, re-prime the surface with Life Deck 11 Series Epoxy before proceeding. LD50 may be added at the rate of 1 quart per 5 gallons of LD220 to accelerate drying time. 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.

Equipment Cleanup

Immediately after use, equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, .

Limitation

- ✓ LD220 should be used only as a base membrane.
- ✓ The components of LD220 are not UV stable and are not designed to withstand direct wear/abrasion.
- ✓ Any remaining material must be tightly sealed to protect it against curing in its container. Containers that have been opened must be used within 1 or 2 days since LD220 is a moisture reactive material that begins to cure when exposed to air.
- ✓ Life Deck does not recommend that LD220 be diluted.
- ✓ Do not use on grade.

For complete information associated with the application of LD220; refer to System Specifications and Section One of the Life Deck Products catalog.

This product contains: ISOCYANATES & SOLVENT

Technical Information

Shelf Life	6 months
Hardness (ASTM D-2240)	55+-5 Shore A
Tear Resistance Die C (ASTM D-624)	250 pli
Tensile Strength (ASTM D-412)	1050+-100 psi
Ultimate Elongation (ASTM D-412)	575 %
Specific Gravity	1.26
Total Solids by Weight (ASTM D-2369)	80.3%
Total Solids by Volume (ASTM D-2697)	69.1 %
Viscosity @ 24°C (75°F)	6500+-3000cps
V.O.C. (ASTM D-2369-81)	2.01 lbs/gallon

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Product Specifications



LD221

Aliphatic Urethane 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 2000 System.

Uses

LD 221 may be used on concrete or plywood decks, resealing existing urethane surfaces, surface protection for athletic tracks, most metal, rubber, wood, or masonry surfaces, 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

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

Coverage

The coverage will vary depending on the thickness applied, the porosity and texture of the surface and desired mil thickness. Apply LD 221 at the rate of 80 to 250 sq. ft. per gallon. In general, 100 square feet per gallon will yield 9.5 dry mils.

Standard Colors

300	White	304	Tan
301	Light Gray	305	Indian Sand
302	Dolphin Gray	306	Brown
303	Dark Gray	2216	Clear

Custom Colors Not Available

Packaging

1 & 5 gallon pails

Mixing

Before application, mix LD 221 using a mechanical mixer (Jiffy Mixer) at slow speeds or mix by hand for at least 5 minutes. Mix thoroughly until a homogeneous mixture and color is obtained. Use caution not to "whip" too much air into the material as this may result in pinhole blisters or shortened pot life. Box all containers to help insure consistent color.

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 Preparation

Prepare surface by sanding, grinding, water blasting sandblasting or shot blasting to achieve a clean, porous and uniform surface that will allow product to penetrate and bond permanently. 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 the surface entirely with TSP and rinse completely with water several times.

Remove mildew or algae using 50/50 blend of household bleach and water and rinse thoroughly. If applied over an existing coating, prime the surface using 11 series or 1200 primer. Note: The most common reason for coating failure is due to lack of preparation. The surface must be porous or rough enough to allow the product to penetrate.

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.

LD221

Aliphatic Urethane Top Coat

Apply LD 221 at the rate of 1 gallon per 80-250 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 11 Series to achieve proper adhesion to the surface.

Drying 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 11 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.

Clean Up

Immediately after use, equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations.

Limitations

- ✓ May be slippery when wet. We recommend that an aggregate be used to aid in slip-resistance.
- ✓ Any remaining material must be tightly sealed to protect it against curing in its container. 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.
- ✓ Do not dilute LD221.

Technical Information

Shelf Life	6 months
Hardness (ASTM D-2240)	55+-5 Shore A
Tear Resistance Die C (ASTM D-624)	250 pli
Tensile Strength (ASTM D-412)	1050+-100 pi
Ultimate Elongation (ASTM D-412)	575 %
Specific Gravity	1.26
Total Solids by Weight (ASTM D-2369)	80.3%
Total Solids by Volume (ASTM D-2697)	69.1 %
Viscosity @ 24°C (75°F)	6500+-3000cps
V.O.C. (ASTM D-2369-81)	2.01 lbs./gallon

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