



# AL (Acrylic Lath) Waterproof Decking System

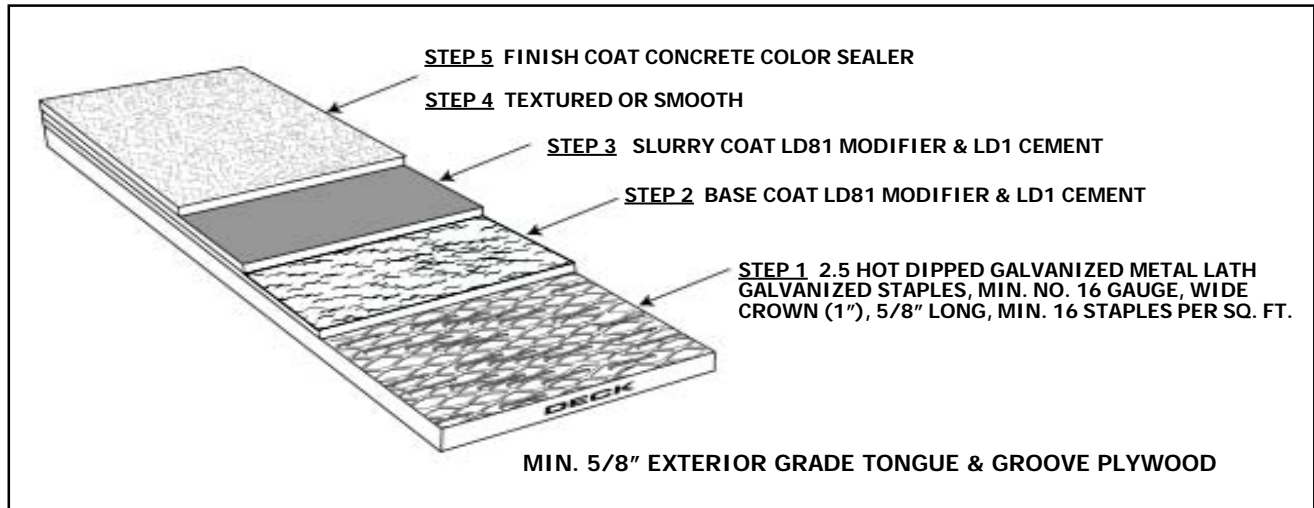


The Life Deck™ "AL" (Acrylic Lath) ICC-ES Rated Waterproof Decking System is a Class "A" Fire Resistive System for plywood decks, installed with a series of three cementitious applications bonded together with a specially formulated acrylic emulsion sealed with a 100% acrylic top coat. Life Deck AL System is designed for both commercial and residential uses.

## Benefits of Life Deck AL System:

- ◆ ER #5416 from ICC ES
- ◆ Durable/Long Lasting
- ◆ Class "A" Fire Retardant
- ◆ Waterproofing For Walking Decks (ASTM-E108)

## The Waterproofing System For Plywood Decks



## PROCEDURE

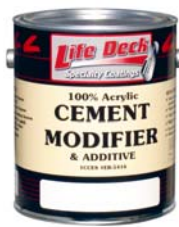
Please read the complete installation guide before ordering material or beginning job.

**STEP 1** 2.5 HOT DIPPED, GALVANIZED METAL LATH GML (17.5 SQ. FT. per sheet) and 1" x 5/8 staples.

**STEP 3** SLURRY COAT LD1 CEMENT POWDER (100-150 SQ. FT. per bag) with 1-1/4 gal. LD81 Modifier

**STEP 2** BASE COAT LD1 CEMENT POWDER (40 SQ. FT. per bag) with 1-1/4 gal. LD81 Modifier

**STEP 4** TEXTURE COAT LD3 CEMENT POWDER (200 SQ. FT. per bag) with 1 gal. LD81 Modifier



**STEP 5** FINISH TOP COAT CONCRETE COLOR SEALER  
Resistant to Ponding Water  
10 Series 100% Acrylic  
28 Series 100% Acrylic Heat Reflective  
(250 sq. ft. per gal.)  
2 Coats recommended

# Product Specifications

## AL Deck System

## Class A ASTM E108 Fire Resistive

**Note: AL instructional application dvds are available on request.**

additional lath and shape in order to divert water for proper drainage.

### Inspection Plywood

Plywood decks must be at least 5/8" CDX exterior grade. (3/4" is best). The deck should be tongue and groove and properly blocked, (glued & screwed) and meet local building codes. 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.

### Base Coat

Combine one bag of LD-1 cement with 1-1/4 gallon of LD-81 acrylic and add up to one quart of water. Mix until uniform with a low rpm 1/2" drill motor. Pour the mixture onto the lath and trowel smooth at the rate of 40 square feet per batch. Use a paint brush to spread the base coat on the flashing making sure to get the mixture into the seams and corners. Using a brush, wet with water, feather all outside edges. Scrape off any high spots or ridges that may inhibit application of a smooth slurry coat. Crickets (reverse slope to divert water to drain) may be installed and sloping may be done using additional base coat (LD-81 and LD-Cement). Maximum thickness should be 1/2" and should be applied 1/4" at a time. Additional slope may be needed.

### Deck Preparation

Be sure the surface is clean, dry and free of grease, paint, oil, dust or curing agents.

### Note

Should deck coating not be completed in one phase or to allow for other construction trades, deck should be covered to avoid being damaged and to keep clean. It may be necessary to power wash the deck to dislodge any construction debris or any other foreign matter.

### Crickets/Sloping

Sloping should always be done in the framing. It 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 pre-existing slope conditions.

### Slurry Coat

Mix the slurry coat by combining one bag of LD-1 cement with 1-1/4 gallons of LD-81 acrylic and up to one quart of water. Trowel the slurry mix over the surface to achieve a smooth finish. Coverage of the slurry coat is approximately 100-150 square feet per batch. Using a brush, wet with water, feather all outside edges, seams and expansion joints. After surface is dry, scrape or grind off any ridges or trowel marks.

### Flashing

Flash at wall-to-deck with 4" x 4" fascia with 2"x4" minimum 26 gauge bonderized sheet-metal overlapped at least 4" and caulked in front and back with a Life Deck approved sealant such as Life Deck Urethane Caulking or equivalent. If the flashing is not bonderized it must be etched so that coating will bond. Nail all flashing every 4".

### Texture Coat

Combine one bag of Life Deck LD-3 cement with one gallon of LD-81 acrylic and mix thoroughly with a low rpm drill motor. Add up to one quart of water to achieve the desired consistency. Using an acoustical hopper gun, spray the texture onto the deck with a circular motion to achieve approximately 70% coverage at a rate of about 150 square feet per batch. After a few moments, depending on the temperature, the texture must be "knocked down" using a 20" x 5" rounded pool trowel for best results. To avoid making impressions, the applicator should wear baseball or golf metal spikes. Wipe trowel clean with a wet rag as needed. Spray continuously, do not stop in the middle of the deck.

### Plywood Seams

Plywood seams should be cleaned out, dry and free of debris.

### Metal Lath (2.5 Hot Dipped Galvanized)

Place the AL lath (only hot dipped galvanized) on the plywood and cut the lath to fit the area making sure the edge of the lath does not parallel any wood seams. On larger decks we recommend that the metal lath be installed across the plywood grain. The lath has a grain and it should be placed so that it curves down at the edge of the deck. The lath should be held back 1/2" from all edges (staple through flashing when necessary). This will allow material to be feathered with a brush. With the lath in place, staple the lath using 16 galvanized staples per square foot (minimum 1" crown x 5/8" long, non corrosive equal to Senco brand). Overlap the lath between 1" to 2". With a hammer, pound down any seams or staples that are higher than the lath. Cricket should be done when laying out metal lath. Cut

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### Top Coat

Mix containers of the same color and same product together to insure a consistent color. Product may be thinned by adding 1 pint of water per gallon to avoid streaks, especially in hot weather. Roll two coats of Life Deck Top Coat using a 3/4" roller at a rate of 200-250 square feet per gallon per coat, allowing appropriate cure time between coats (2 hours @ 80°F, 4 hours @ 70°F. Shaded areas require longer cure times between coats or use). Spread the Top Coat in two directions to achieve a uniform finish. Coverage will vary according to texture. Allow 4 to 6 hours drying time (at 70 degrees) before permitting light pedestrian traffic. For best results, allow to cure 24 hours before direct traffic is permitted. Allow an additional 24 hours before heavy objects are placed on the surface.

### Optional Patterns

After the slurry coat is dry, you may lay out a pattern using 1/2" or 3/4" Life Deck pattern tape. Spray texture over tape and remove within 24 hours. This will leave an impression in the surface. The pattern can be used to enhance the look and create a tile or flagstone effect.

### Temperature/Weather

Do not install Life Deck AL System if the temperature is below 55 degrees. Rain will wash away Life Deck acrylic products. If inclement weather threatens, cover deck to protect new application. Do not allow any Life Deck product to freeze.

### Maintenance

Most stains clean up with TSP and water. Use only a bristle scrub brush. The Life Deck AL System textured deck should have annual inspections and be resealed with Life Deck top coat every 2 to 3 years depending upon ultraviolet exposure from the sun or sooner if recommend by your applicator.

### Repairs

Repairs may be done by grinding off the damaged area and replacing the material as written in this spec. Plywood must be replaced if necessary and lath must be restapled to integrate into the remaining surface.

### Warranty

Life Deck AL has a five year limited warranty. It is valid only if the complete AL system is installed by a factory trained, licensed contractor and maintenance specifications are followed along with annual inspections. Life Paint will replace any defective AL product proven to be the cause of deck failure. 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 Paint 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 area are not built to meet local building codes.

### CAUTION:

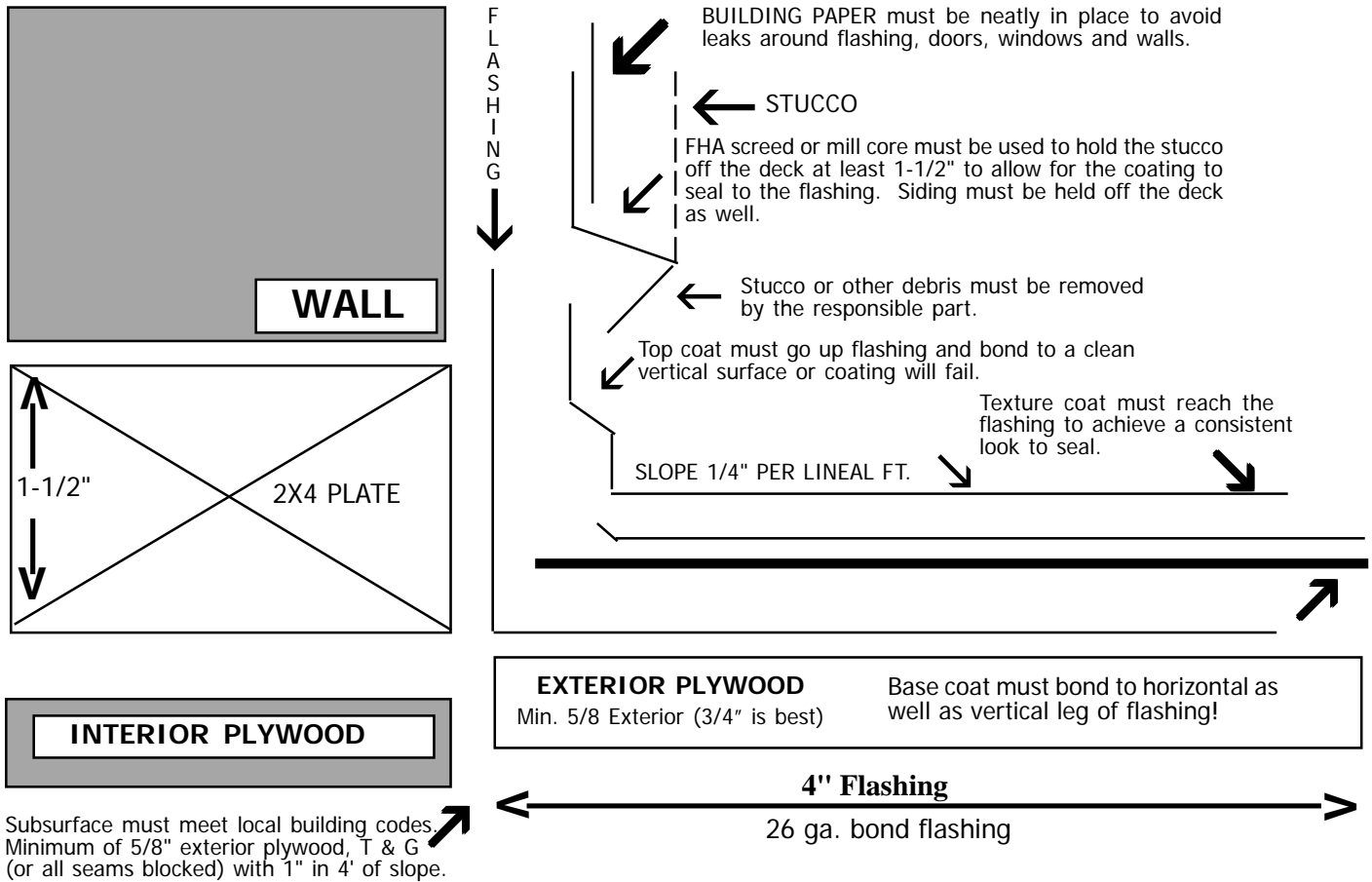
Listed below are important warranty considerations.

1. Do not bolt railings through the deck.
2. Inadequate slope in the sub surface is not acceptable.
3. Use only Thunderbird deck drains.
4. Stucco or wood siding must be held 1-1/2" off the deck.
5. Thresholds must have flashing installed properly and must be 1" off the deck to allow for material to cove up.
6. Parapet walls and scuppers must be properly built so water does not enter and simulate a deck leak.

## LIFE DECK WALL TO DECK DETAIL

The #1 cause for leaks on decks is easily the lack of proper flashing followed by lack of slope and then improperly applied deck coatings. To help illustrate the flashing problem we have prepared the following drawings for your information. Please share this with your contractor, framer, stucco-contractor and architect or anyone else you feel could benefit from this information.

### DRAWING NOT TO SCALE



## LD81 100% Acrylic Cement Modifier & Additive

### Description

LD-81 is a high solids acrylic-polymer modifier that will give increased strength, flexibility and adhesion to most cement based products. LD-81 makes the cement product more waterproof, more stain resistant and will extend the life of cement products especially if exposed to the elements.

### Uses

LD-81 is primarily used as an additive to the Life Deck cement products so that they can be used to waterproof decks, resurface and patch concrete and for a variety of exterior decorative concrete treatments. Please read complete system information sheets on Life Deck AL or Texture Crete if choosing to apply these systems.

### Advantages when added to cement products

- ◆ Increases strength and psi
- ◆ Allows good working time
- ◆ Allows cement products to be feathered
- ◆ Increases adhesion to most surfaces
- ◆ Helps to waterproof and increase water resistance
- ◆ Safe Water based
- ◆ Adds flexibility as more LD-81 is added
- ◆ Improves freeze-thaw characteristics
- ◆ Won't yellow like SBRs
- ◆ Greater Strength than PVAs

### PHYSICAL PROPERTIES LD81 ALL ACRYLIC MODIFIER

Appearance	white milky liquid
Solids content by weight	50-53%
Freeze-thaw stability	5 cycles
Min. film formation temperatures	53°F
Maximum V.O.C.	0 grams per liter