



## System Information

### Life Deck AL UT

### Under Tile/Over Plywood Waterproofing

#### Description

The Life Deck AL UT (Acrylic Lath Under Tile) is a process for waterproofing plywood decks to receive tile or concrete. It is a metal lath reinforced system installed with a series of two separate polymer modified cementitious applications and is bonded together with a specially formulated acrylic emulsion. The Life Deck AL UT incorporates Seal Guard under the lath as a back up waterproof membrane and reinforcement for plywood seams.

#### Uses

The AL system works only on plywood walking decks to receive tile or concrete. It is recommended for the discriminating contractor or building owner who demands the ultimate in waterproofing and durability. Life Deck AL has been designed for balconies, corridors, stairs, and landings. It is regularly specified for hotels, condominiums, apartments and office buildings.

#### Advantages

- Unmatched Strength and Durability
- Waterproof
- Fast Access After Installation
- Five Year Manufacturers Warranty
- Excellent Sound Reduction Qualities
- Covers Rough Plywood and Seams
- Cost Effective
- Durable During Construction

#### Packaging

Metal lath  
2 1/2' x 8' each  
LD 81 Cement Modifier  
1 gallon & 5 gallon pails  
LD 1 Cement  
50 lb. bags  
Seal Guard  
6" x75' rolls  
12"x75' rolls  
36"x75' rolls

#### Inspection

Plywood must be a minimum of 1" thick or two sheets of at least 5/8" plywood. Deflection shall not exceed L/360. The deck should be tongue and groove when possible, properly blocked and nailed (glued & screwed is best). Block between studs at wall to allow Seal Guard to cover up wall behind flashing.

Plywood shall have a maximum span of 12". In general deflection shall be minimized, as movement will crack tile and concrete.

Slope must be a minimum of 1/4" per linear foot. Please refer to Notice to Customer for Deck Coatings. The decks should meet local building codes.

#### Surface Preparation

Be sure the surface is clean, dry and free of grease, paint, oil, dust or any foreign material that may prevent proper adhesion.

#### Application

#### Seal Guard

One method of application is to roll out the membrane with the white side up and measure individual lengths with 2" minimum overlap. Pull the material tight from each end and remove the 2-1/2" strip of the overlap release film and adhere to the deck.

Another method is to pull 12" to 24" of the release film and position the roll where desired. Adhere the membrane firmly onto the deck. Begin pulling the release film in the opposite direction. The roll will follow as the release film is removed. Smooth the membrane as the adhesive back comes into contact with the deck.

Seal Guard should be installed before the flashing, turning up the wall 4" and down the fascia 1". The material is not UV stable cannot be left exposed for more than a few weeks.

#### Flashing

Use a minimum of 26 gauge bonderized sheet metal. Flash at the junction of the wall and deck using 4"x 6" flashing. Flash the fascia with 2"x 4" flashing. Overlap all seams at least 4". Caulk between overlapped flashing as well as the seam with a Life Deck approved. Nail all flashing every 4". Note: If the flashing is not bonderized it must be etched in order for the coating to adhere properly.

#### Drains

Use only Thunderbird Tile Deck Drain or Thunderbird Dual Deck Drain. Install Seal Guard beneath and above the flange.

### ***Metal Lath***

Place the AL lath (2.5 lbs. per sq. yd. hot dipped galvanized) over the Seal Guard and cut it to fit the area. The Lath should run across the grain of the plywood (across the long seams) when possible. 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. This will allow the coating material to be feathered with a brush. With the lath in place, start in the center working your way out stapling the lath using 16 staples per square foot (minimum 1" crown x 5/8" long, 16 Ga. non-corrosive Senco P10 or equal). Overlap the lath between 1" to 2" and staple every 1" to 2" along the seam. With a hammer, pound down any seams or staples that are higher than the lath.

### ***Base Coat***

Combine 1 bag of LD 1 cement into 1 1/4 gallon of LD 81 acrylic (4.5 gallon total) and add up to 1 quart of water. Mix until uniform with a jiffy mixer on a low rpm 1/2" drill motor. Pour the mixture (4.5 gallon total) onto the lath and trowel smooth at the rate of 40 square feet per batch. Use a paintbrush 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. As soon as it is dry, scrape off any high spots or ridges that may prevent a smooth slurry coat.

### ***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 the manufacturer should not be held responsible for the outcome of this remedial measure to help correct the preexisting slope condition. Crickets (reverse slope to divert water to drain) may be installed and sloping may be done using an additional base coat (LD 81 Acrylic and LD 1 Cement). Maximum thickness should be 1/2" and should be applied 1/4" at a time. Additional lath may be installed prior to base coat to simulate a cricket. See technical bulletin for sloping.

### ***Slurry Coat***

Mix the slurry coat by combining 1 bag of LD 1 AL cement with 1 gallon of LD 81 AL acrylic (4.5 gallon total) and up to 1/2 gallon of water. Mix until uniform with a jiffy mixer on a low rpm 1/2" drill motor. Trowel the slurry mix (4.5 gallon total) over the surface to achieve a smooth finish. Coverage of the slurry coat is between 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.

### ***Drying Time***

For best results, allow 4 to 6 hours drying time before permitting light pedestrian traffic or additional coats are applied. Allow to cure 24 hours before heavy traffic is permitted. Allow an additional 24 hours before heavy objects are placed on the surface or before tile is installed or concrete is poured.

### ***Limitations***

- Do not install if the temperature is below 55°F or above 95°F.
- Rain will wash away Life Deck acrylic products. If inclement weather threatens, cover deck with a tarp or visquine to protect the material. Do not allow Life Deck LD-81 Cement modifier to freeze.

- Store material at 40°F-110° F.

### ***Clean Up***

Uncured material can be removed with water. If cured, material can only be removed mechanically or with some solvents.

### ***Maintenance***

Contact the tile or concrete manufacturer or installer.