

# LIFE

## SPECIALTY COATINGS

### MC-UT System

Waterproofing - Concrete Under Tile

### Specification Guide

Acrylic Cement

#### Description

Life Deck MC-UT System is a fiber reinforced deck system installed with a series of three separate water-based acrylic applications. It is bonded together with a specially formulated acrylic emulsion. The waterproof system is left unfinished to ensure a secure bond between the MC-UT System and bonding materials of a tile overlayment.

#### Uses & Recommended Surfaces

The MC-UT System is for use on elevated concrete walking decks. This specification is specifically designed for use under a tile overlayment, or tile flooring. It can be installed on balconies, corridors, stairs and landings and is regularly specified for hotels, condominiums, apartments and office buildings. This product can be applied over most old deck systems to provide an excellent method for the rehabilitation of problem surfaces.

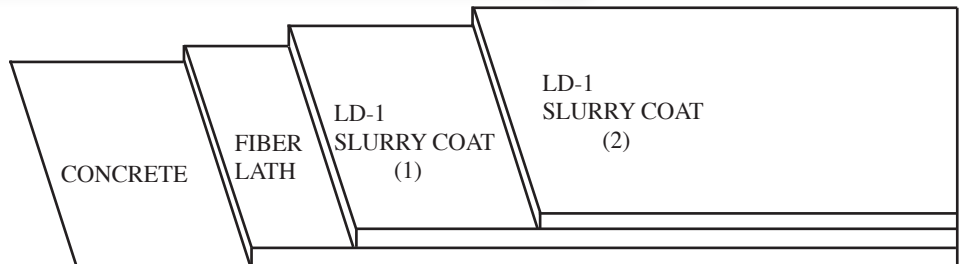
- Balconies
- Breezeways
- Stairways
- Patio Covers
- Above Ground Concrete Pool Decks

#### Features

- Fast Drying
- Fast Access
- Extremely Flexible
- Multiple Finishing Options
- Excellent Durability
- 5 & 10 Year Warranties Available

#### Products

Fiber Lath- LDFLTH  
Flexible Acrylic & Modifier- 1589  
Cement Powder- LD-1



#### Independant Lab Test Results

ASTM C 109, Compressive Strength	292 psi
ASTM C 190, Tensile Strength	75 psi
ASTM C 297, Tensile Strength (layered system)	49 psi
ASTM D 751, Breaking Strength	Width- 90.2 lbs/in Elongation 14.4%
	Length- 138.6 lbs/in Elongation 13.8%
Pliability, 1 Inch Mandrel, 14 Day Cure	Width- 180° no breakage
	Length- 180° no breakage

#### Inspection

■ Concrete must be clean, dry and free of grease, paint, oil, dust or curing agents. It should have a rough finish and be porous and feel like 30 grit sandpaper.



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#### Deck 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 have a rough profile.

#### Seams and Cracks

Cracks should be routed out 1/4" x 1/4", seams should be cleaned out and both should be dry and free of debris. Life Deck Seam Tape (self adhering) should be laid out over all cracks, seams, and metal flashings. Apply Life Deck 7200 into the tape with a trowel or putty knife to smooth and then broadcast with #30 silica sand to improve the surface profile for subsequent coating adhesion. Allow to dry before the next coat.

#### Crickets and Sloping

Sloping should always be done in concrete subsurface. 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 and 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 the Life Deck LD-10 sloping and patching cement. Maximum thickness should be feathered up to 4 inches. When building up over concrete, a rough profile is needed to assure bond of the material (see deck preparation).

#### Flashing

▪ Flash at the junction of the wall and deck using 4"x 4" flashing. Flash the fascia with 2"x 4" flashing with a drip edge. Use a minimum of 26 gauge bonderized sheet-metal. If using galvanized metal flashing, prepare the metal by cleaning off the residue oils with a solvent. Overlap all seams at least 4". Caulk between overlapped flashing as well as the seam with a Life Deck approved urethane sealant, such as Rainbuster™ 500 or equivalent. Adhere all flashing to the concrete deck using a Life Deck approved urethane sealant, applying three beaded rows. It may be necessary to place a heavy object, such as a brick, on the flashing to hold it flat. Once the flashing is adhered to the substrate, apply Life Deck approved urethane sealant to all seams and spread it 3-4 inches smooth from the seam creating a seamless application across all seams where the flashing meets the substrate.

#### Deck Preparation

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

#### Fiber Lath

Lay out the Life-Deck Fiberlath (LDLFLTH) reinforcing mesh on the deck overlapping the seams. Trim to fit using a razor knife. Apply the Life Deck 1589 Acrylic into the Fiberlath and laminate to the surface at the rate of 60 square feet per gallon. Using a razor knife cut any bubbles while still wet. Allow to dry 1-4 hours.

#### Slurry Coat (1)

Following mixture will result in 8 gallons. Use two 5-gallon buckets to contain full mixture. Combine one bag of LD-1 cement with four gallons of 1589 FM Base Resin (1 part LD-1 to 1 part 1589 by volume for smaller batches). Mix until uniform with a jiffy mixer on a low rpm 1/2" drill motor. Pour the mixture into the mesh and trowel smooth at the rate of



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approximately 256 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 wet brush, feather all outside edges. Allow to dry (1-4 hours) and scrape off any high spots or ridges that may inhibit application of a smooth slurry coat. Trim any mesh that is showing.

#### 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.

#### Slurry Coat (2)

Following mixture will result in 8 gallons. Use two 5-gallon buckets to contain full mixture. Combine one bag of LD-1 cement with four gallons of 1589 FM Base Resin (1 parts LD-1 to 1 part 1589 by volume for smaller batches.) Mix until uniform with a jiffy mixer on a low rpm 1/2" drill motor. Pour the mixture onto the base coat and trowel smooth or broom at the rate of 320 square feet per batch. Using a wet brush feather all outside edges, seams and expansion joints. After the surface is dry, scrape or grind off any ridges or trowel marks. You may now scrape, sand or grind to ensure a more smooth finish for bonding materials of the tile overlayment.

#### Optional Materials

##### Primers

- For concrete that has moisture vapor transmission, the LD12VAPOR epoxy primer is necessary to block moisture from exiting the substrate through the MC-UT System. After testing for moisture vapor content, concrete substrates that have a higher transmission rate of 2.5 lbs and no more than 7.5 lbs, use one coat of LD12VAPOR per product specification. If the transmission rate is greater than 7.5 lbs and no more than 18 lbs, apply two coats of LD12VAPOR per product specification.

- For hard to adhere to surfaces such as urethane waterproofing systems, solvent based top coats, or unknown finishes that have been previously applied, it is recommended that the Life Deck 25 Series water base epoxy be used as a primer. Apply per product specification.

#### Note

▪ Please refer to individual product technical sheets for more detailed product information on all products within this specification.

#### Clean Up

Uncured material can be removed with water. Cured material can only be removed mechanically.



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#### Maintenance

Tile should be checked at minimum, once per year, for cracks and/or loose tile pieces that may cause damage to the MC-UT System. Replace loose, or damaged, tile(s) per manufacturer recommendation/specification immediately. Damaged and/or cracked grout should be removed and replaced immediately per manufacturer recommendation/specification. It is recommended that a grout sealer be used at installation and after grout repair, per manufacturer recommendation, to ensure a longer life to grout.

#### Health, Protection and Safety

Refer to individual product container labels, individual product technical data sheets, and SDS for health, protection, and safety precautions.

