



Z-SEAL LM ULV

Low-viscosity,
low surface tension,
penetrating healer/sealer

DESCRIPTION

Z-Seal LM ULV is a highly penetrating, two-component epoxy healer/sealer. Its rapid cure time allows traffic to re-open in less than six hours.

USES

Z-Seal LM ULV is designed to prolong the life of concrete by sealing cracks against moisture and chloride ion intrusion. Specific applications include:

- Bridge decks
- Parking decks
- Concrete floors
- Roadways
- Airport runways/taxiways
- Columns & beams in splash zones
- Consolidation of porous & dusting surfaces

ADVANTAGES

- Excellent bond strength
- Moisture insensitive
- High early strength
- Easy to mix - 1:1 ratio
- Low modulus
- Low viscosity
- Epoxy urethane technology
- Color coded for ease of mixing

PRODUCT INFORMATION

COLOR: A: BLUE, B: LIGHT AMBER

SHELF LIFE: 2 years in original, unopened containers.

STORAGE CONDITIONS: 50 °F to 95 °F in dry and dark conditions

TEMPERATURE CONSIDERATIONS

Epoxy resins are temperature sensitive and care should be taken to condition all components between 65 °F to 95 °F for a minimum of 24 hours prior to mixing and placement. Temperatures colder than stated range increase viscosity of resins and inhibit mixing and flow of materials. Temperatures warmer than stated range decrease viscosity of resins, hasten the cure and reduce the working time. Mixing and curing at less than ideal temperatures <50 °F or >95 °F will require special considerations.

PACKAGING

- 10 Gallon Kit (2 ea 5 Gallon Buckets)
- 110 Gallon kit (2 ea 55 Gallon Drums)
- 550 Gallon Kit (2 ea 275 Gallon IBC)



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TESTING DATA

COVERAGE

	Epoxy	Aggregate
Tined	1 gallon/60-80 sq. ft	4-8 lbs./sq. yd.
Smooth	1 gallon/80-150 sq. ft.	4-8 lbs./sq. yd.

CURE TIME

	Average Temperature of Materials & Substrates (° F)					
Cure Temp	60-64	65-69	70-74	75-79	80-84	85+
Time	8 hrs	6.5 hrs	5 hrs	3.5 hrs	3 hrs	2.5 hrs

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

Clean surface by shot-blasting or sandblasting to remove all contaminants and open surface and cracks. Remove dust and debris by blowing off with oil-free compressed air.

PREPARATION WORK

Repair delaminations and potholes prior to installation of Z Deck EU FAST. Polymer patching may be used with no delays to the installation of Z Deck EU FAST. Treatment of visible/moving cracks may be required prior to installation of Z Deck EU FAST - Refer to ZIIS representative for recommendations. Clean surface by shot-blasting to ICRI level 5 minimum to remove all contaminants, tar, pavement markings, etc. Remove dust and debris by blowing off with oil-free compressed air. Tape all joints and drains to prevent resin from entering. Run tape down center line between the lanes and between layers

MIXING

Mechanically mix Component A with Component B 1:1 by volume with a mixer and low-speed variable drill at 300 rpm for a minimum of 3 minutes. Mix only the quantity that can be used within its gel time. BULK: For bulk mixing, a positive displacement pump, incorporating a static mixing wand and meter, is recommended.

PLACEMENT

Apply neat Z-Seal LM ULV by pouring or spraying on the surface. Distribute material evenly with a squeegee, roller or broom, maintaining a liquid head over cracks until refusal. Remove all excess material with squeegee or broom. Broadcast select aggregate to properly cover liquid resin. The aggregate should be moisture free and free of dirt, clay, etc. After initial cure of first course, remove excess aggregate. When used as primer or pre-treatment prior to overlay, consult ZIIS representative.



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LIMITATIONS

- For professional use only
- Do not thin with solvents
- Minimum age of concrete must be 28 days before applying as an overlay, unless otherwise approved by ZIIS.
- Consult with ZIIS representative when used on exterior slabs on grade subject to freezing.
- Consult ZIIS representative when used on exterior slabs on grade subject to freezing or for project specific directions when using as binder for epoxy mortar
- Z-Seal LM ULV is a vapor barrier after curing
- Substrate temperatures must be 50 °F and rising prior to installation and >50 °F must be maintained during the entire curing period-see curing guidelines
- Consult ZIIS representative when mixing or placing outside of the temperature recommendations

HEALTH & SAFETY

Safety: Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only.

FIRST AID

Eye Contact: Immediately flush with large amounts of water. Seek medical attention. Inhalation: Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. Ingestion: Seek medical attention immediately. Skin Contact: Wipe off contaminated area and wash with soap and water immediately.

MANUFACTURING

Products are manufactured by ZIIS (Utah Foam Products Inc.) in the U.S.A. under strict quality assurance practices at our Salt Lake City, UT plant.

SHIPPING

Shipping Class: Motor Freight Class 60 Hazard
Classification: Not Hazardous

WARRANTY & DISCLAIMER

ZIIS, (UTAH FOAM PRODUCTS INC.) WARRANTS ITS PRODUCTS TO BE FREE FROM MANUFACTURING DEFECTS AND THAT PRODUCTS MEET THE PUBLISHED CHARACTERISTICS WHEN TESTED IN ACCORDANCE WITH ASTM AND ZIIS STANDARDS. NO OTHER WARRANTIES BY ZIIS (UTAH FOAM PRODUCTS INC.) ARE EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ZIIS WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY CLAIMED BREACH OF WARRANTY. ZIIS' LIABILITY UNDER THIS WARRANTY IS LIMITED TO REPLACEMENT OF MATERIAL OR REFUND OF SALES PRICE OF THE MATERIAL. THERE ARE NO WARRANTIES ON ANY PRODUCT THAT HAS EXCEEDED THE "SHELF LIFE" OR "EXPIRATION DATE" PRINTED ON THE PACKAGE LABEL. THERE ARE NO WARRANTIES IF THE SUBSTRATES WERE NOT PROPERLY PREPARED; IF THE PRODUCTS WERE NOT PROPERLY MIXED; OR THE PRODUCTS NOT PROPERLY APPLIED.



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