



Z-TREAT ANTI-SCALING

Clear, penetrating, high-performance
anti-scaling treatment

DESCRIPTION

Z-Treat Anti-Scaling is a clear, liquid treatment that penetrates and strengthens concrete pavements. This product was designed for cold weather climates that are subjected to freeze-thaw cycles, studded tires, chains, snowplows, and deicers. The treatments high-performance hardening capabilities maximize durability and longevity of tined, diamond ground, grooved, milled, shot blasted, and/or re-textured surfaces, making them less prone to rutting and early wear. This will prolong the better friction and safer roadway surfaces. It also reduces and helps to mitigate alkali silica reaction and spalling at the surface of exposed concrete.

ADVANTAGES

- Lithium chemistry enhances reaction with calcium hydroxide to form C-S-H (calcium silica hydrate).
- Molecular size of lithium provides for deeper penetration.
- Increasing timeline for higher friction surface.
- Non-soluble / Non-expansive lithium will not absorb moisture-a characteristic critical for resistance.
- UV stable, will not flake or peel.
- Reduces dusting for cleaner and safer environments.
- Easy one coat application. No water rinse and wash required.
- Can be applied on freshly placed, new or existing pavement surfaces.
- Curing compounds can be applied on top of treated surfaces to provide ultimate hydration without discoloring or whitening the surface.
- Water-based, contains no solvents, Low VOC content, < 50g/L.
- Extends the life expectancy, and integrity of the pavement enhancing surface durability.
- Cost effective, safe and rapid return to service.

APPLICATIONS

- Concrete pavements for highways
- Parking decks
- Parking structures and airport runways
- Pavement preservation treatment
- Concrete exposed to deicing chemicals
- Anywhere surface friction longevity is desired

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)

COVERAGE

Roadway Pavement 150-200 ft² per gallon (1 liter per 3.67 to 7.35m²)

*Coverage rate will vary with each concrete quality

DRYING TIME: 1 hour



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TESTING/COMPLIANCE

- ASTM C672
- 90% reduction in scaling
- Recommended for use on concrete classes both new and existing concrete pavement surfaces

PHYSICAL PROPERTIES

Appearance: Clear, pale light green, water-based solution

Total Solids: 9.9%

Active Ingredients of total solids: 100%

Specific Gravity: 1.06

pH: 11.5

V.O.C.: less than 50g/L

Freeze point: 32° F (0° C)

Depth of Surface Penetration: 2-8mm

Shelf Life: 1 year in factory-sealed container

LIMITATIONS

Important: CONCRETE SURFACES ONLY.

Structural rehabilitation of pavements should be analyzed by a qualified, licensed structural engineer. For subsequent coatings applications (curing compounds, epoxies, High friction Surface treatments (HFST) HiMod overlays), perform proper surface preparation and consult the coating manufacturer for more instructions. Concrete mixture and curing compound, admixtures, form release agents, curing compounds may adversely affect penetration or reaction.

Z-TREAT Anti-Scaling is not a crack filler.

- DO NOT USE as a joint or expansion joint filler. The material is not designed to bridge or repair cracks.
- DO NOT USE on asphalt surfaces.
- DO NOT allow Z-TREAT Anti-Scaling to come in contact with any glass, fabric, metal, or painted surfaces. Immediately wipe contaminated surfaces with a clean water saturated cloth, then wipe dry with a second clean cloth.



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DIRECTIONS FOR USE

Application by spray rig and/or brush to new or existing concrete surfaces. (Always test each concrete surface for suitability and desired results. Let surface dry before inspection and approval of desired application.)

SURFACE PREPARATION

Roadway dirt and debris shall first be removed from the area of the deck to be treated. They can either be swept manually, power broom swept or blown with compressed air so that the surface shall be dry and free of dust and dirt. High-pressure compressed air shall be used to blow all loose material from visible cracks. The cleaning equipment shall be fitted with suitable traps, filters, drip pans, driers and other devices to prevent oil and other foreign material from being deposited on the surface. Traffic shall not be allowed on the clean surface prior to application of the sealer. All traces of asphalt or petroleum products and concrete curing sealers shall be removed prior to treatment.

INSTALLATION

Installation/Specification Materials shall be stored at 18-27° C (65-80° F). The temperature of the surfaces to be treated may range from 4.4° C (40° F) to 49° C (120° F). The Materials shall be stored at 18-27° C (65-80° F). The system shall provide a material reaction on the concrete surface for a time of no less than 20 minutes. The time shall be adjusted to compensate for the change in temperature throughout the day. The temperature of the surfaces to be treated may range from 4.4° C (40° F) to 49° C (120° F). The Contractor may request a technical representative to be on-site during initial application. Spray bar through positive displacement atomization of the treatment. Compressed air shall not be used to produce spray. Cleaning and flushing of equipment, tools, etc., shall be done with an appropriate method. Material is to be gravity-fed. Cleaning and flushing of equipment, tools, etc., shall be done with an appropriate method.

Before using the material, the contractor shall submit to the director copies of the manufacturer certified test data showing that the material complies with the qualitative and quantitative requirements of this specification. When the material has been approved by the Director, further testing by the manufacturer will not be required unless the formulation of the manufacturing process has been changed, in which case new certified test results will be required. The manufacturer shall certify that the formulation is the same as that for which data has been submitted. The Z-Treat Anti-Scaling material shall be applied by a low-pressure sprayer that evenly distributes the material with a spray rate that meets the minimum required application rate as determined by specification. Certificate of Installation and License A certificate of material installation and product license maybe be requested for private, state or federal agency projects requiring proof of application license and material certificates. Contact manufacturer representative to provide sample submittals, product retention samples and/or certificate of analysis (C of A) for product shipments if requested for the project.



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ACCESSORY PRODUCTS

Important Note: CONCRETE SURFACES ONLY. Structural rehabilitation of pavements should be analyzed by a qualified, licensed structural engineer. For subsequent coatings applications (curing compounds, epoxies, High friction Surface treatments (HFST) HiMod overlays), perform proper surface preparation and consult the coating manufacturer for more instructions. Concrete mixture and curing compound, admixtures, form release agents, curing compounds may adversely affect penetration or reaction. Z-Treat Anti-Scaling is not a crack filler.

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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.

CLEAN UP

Use soap and water to clean tools and equipment. Z-Treat Anti-Scaling is non-toxic and environmentally safe. Because it is alkaline, use excess material or allow it to dry out and dispose of according to local regulations. Do not pour into sewer systems or storm drains.

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.

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.