



# Z-TREAT SALT GUARD 244

Premium lithium silicate hardener and hydrophobic sealer

## DESCRIPTION

Z-Treat Salt Guard 244 is a premium hardener, densifier and hydrophobic treatment for protecting concrete and masonry surfaces against freeze-thaw cycles, moisture, and chloride ion intrusion damage. Z-Treat Salt Guard combines the benefits of reactive silicone and lithium silicate to meet the NCHRP 244 standard for chloride protection of concrete with one application. This treatment helps prevent efflorescence and spalling while reducing permeability. When applied to concrete, it penetrates and reacts with calcium hydroxide to form insoluble calcium silicate hydrate, making the treated concrete more water, stain, and abrasion-resistant for easier maintenance and longer life.

## APPLICATIONS

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

## ADVANTAGES

- One time treatment, no need to reapply
- Protects against salt and freeze/thaw damage
- Hardens, densifies and dust-proofs
- Easy-to-use, low odor, no rinsing required
- Defense against water and deicing chemicals
- Not susceptible to UV damage
- Breathable - Allows moisture to escape without damage to the surface
- Penetrates No film to lift or peel off
- Reduces efflorescence and surface sweating
- Does not contribute to surface ASR or promote crazing
- VOC compliant, may contribute to LEED points (IEQ credit)

## USES

Exposed concrete exposed to moisture and/or deicing chemicals- Bridge Decks, barrier walls, bridge railings, wing walls, approach/departure slabs, concrete roadway pavement, header walls, expansion/control joints, salt sheds concrete medians.

## 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)

## PHYSICAL PROPERTIES

**COLOR:** Clear

**ODOR:** Slight to none

**TOTAL SOLIDS:** 17.1%

**SPECIFIC GRAVITY:** 1.01

**pH:** 11-12

**VOC CONTENT:** <50g/L

## TESTING DATA

**ASTM C672** | 89% reduction in scaling

**ASTM C-779** | 45-54% increase in abrasion resistance

**Meets NCHRP 244 test for reduction in chloride intrusion 90%**



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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, sandblasted, or shot blasted; followed then with manual or power broom swept and 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 by the abrasive blasting prior to air sweeping.

### INSTALLATION

Only apply product when temperatures will be above 40° F (4° C) for at least 2 hours following application. Clean surface to remove any contaminants that may prevent Z-Treat Salt Guard from penetrating. If acidic, citrus or d-limonene cleaners have been used, neutralize the surface using an alkaline cleaner (TSP, Tide laundry detergent, etc.) and rinse well with water. Using a sprayer, apply Z-Treat Salt Guard evenly on the surface while keeping the surface wet with product for 20 minutes.

For vertical surfaces, apply “wet on wet” starting at the highest elevation, spraying to maintain a 6” dripline below the spray pattern. On newly placed, broom-finished concrete, Z-Treat Salt Guard may be applied seven days following finishing. Keep the product from puddling as it dries on the surface. If curing materials have been applied, it is necessary to apply Z-Treat Salt Guard after removing the cure. Epoxy overlay systems can be applied without product removal or additional surface preparation. The surface is ready for use when dry.

*\*It may be necessary to spray cold water on the concrete surface if temperatures are above 90° F (32°C). This will help to cool the surface prior to the application of Z-Treat Salt Guard to prevent flash-drying on the surface. Proceed with product application once the surface is dry to touch.*

*\*Always do a small test sample on the surface before full application to be sure there are no variables or contaminants in the substrate that may be incompatible with this product.*



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## LIMITATIONS

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 Salt Guard 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 Salt Guard to contact 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.

## CLEAN UP

Use soap and water to clean tools and equipment. Z-Treat Salt Guard 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.

## 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.

## 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

**KEEP OUT OF REACH OF CHILDREN.** Do not drink.

**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 no warranty of merchantability or fitness for a particular purpose. ZIIS will not be liable for damages of any sort 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.