



# Z-TREAT EXTEND ACP

Asphalt Aggregate Hardener for longer Asphalt life

## DESCRIPTION

Z-Treat Extend ACP is a liquid treatment for asphalt aggregates that are subject to premature wear. Z-Treat Extend ACP uses the benefits of lithium silicate to penetrate and react with the aggregate to make the treated aggregates more resistant to water, wear, abrasion, and freeze-thaw cycles giving the surface texture a longer life. It will not alter the appearance or hinder the friction of the aggregates.

Z-Treat Extend ACP is a treatment for the asphalt aggregates after the asphalt is placed. This product was designed to increase the hardness and abrasion resistance of the limestone/dolomite aggregates by a minimum of 30%. It will also add water repellency to avoid liquids from penetrating and freezing inside the aggregate matrix causing freeze-thaw damage. The increased abrasion resistance will also prolong the surface friction as it will slow the wear and rounding of the aggregates, prolonging the micro and macrotexture of the roadway surface.

## ADVANTAGES

- One time treatment, no need to reapply
- Hardens, densifies increase abrasion resistance
- Easy-to-use, low odor, no rinsing required
- Not susceptible to UV damage
- Breathable - Allows moisture to escape without damage to the surface
- Penetrates - No film to lift or peel off
- Helps prevent aggregate rounding from wear
- VOC compliant and may contribute to LEED points (IEQ credit)

## USES

- Parking lots
- Concrete floors
- Roadways
- Airport runways/taxiways
- Treatment of limestone/dolomite aggregates used in ACP.

## ESTIMATED COVERAGE

150-250 ft<sup>2</sup> per gallon (6.1-8.6 m<sup>2</sup> per liter)

\*Coverage rate will vary depending on asphalt macro texture, porosity and environmental conditions.

## PACKAGING

- 5 Gallon Buckets
- 55 Gallon Drums
- 275 Gallon IBC
- Bulk Tank

## PHYSICAL PROPERTIES

**COLOR:** clear

**ODOR:** Slight to none

**TOTAL SOLIDS:** >8%

**SPECIFIC GRAVITY:** 1.02

**pH:** 11-12

**VOC CONTENT:** <5 g/L



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## DIRECTIONS FOR USE

Application by spray rig/bar and/or brush to new or existing asphalt surfaces. (Always test each asphalt 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 surface 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. 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 surface treatment.

### INSTALLATION

Only apply product when temperatures will be above 35° F (4° C) for at least 2 hours following application. Clean surface to remove any contaminants that may prevent Z-Treat Extend ACP from penetrating.

**For best practice:** Use an application apparatus that consists of either bulk liquid tanks or IBCs, a positive displacement pump that has onboard monitoring and cloud reporting, and a spray bar. The positive displacement pump must be electrically operated, be able to place 1000 gallons of liquid densifier per hour, automatically adjust application rate of material to vehicle speed and maintain application rate of Z-Treat Extend ACP within 2% tolerance during the installation. The monitoring component of the system must be able to display gallons placed, square feet per gallon target, square feet per gallon placed, travel rate, time and date. The cloud data report will include GPS installation positions with station reporting, material applied at each station, application rate with the date and time of each installation. Each report will indicate the name of the installer, contract ID# and material installed.

The spray bar must be able to accommodate a 12 LF pass, provide even coverage across the lane during the application. The spray tips must not atomize the material or present a traffic hazard in adjacent lanes.

Z-Treat Extend ACP will be applied evenly over the surface and remain wet with product for 20 minutes.

Keep the product from puddling as it dries on the surface. If curing materials have been applied, it is necessary to apply Z-Treat Extend ACP after removing the cure. The surface is ready for use when dry.

\*It may be necessary to mist 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 Extend ACP 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: ASPHALT SURFACES ONLY. Structural rehabilitation of pavements should be analyzed by a qualified engineer. Z-Treat Extend ACP will not hinder subsequent coatings such as HFST binders, traffic markings or delineators.

DO NOT allow Z-Treat Extend ACP 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 Extend ACP 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

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.

## 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.

## 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.**