



# Z-TREAT EXTEND ACP

Asphalt Aggregate Hardener for longer Asphalt life

## DESCRIPTION

Z-Treat Extend ACP is a liquid hardener and densifier for different types of aggregates that are added to asphalt and increase the longevity of the surface profile. 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, stains, and abrasion, giving the surface a longer life. It will not alter the appearance or friction of the aggregates.

Z-Treat Extend ACP is a pre-treatment for the aggregates before they are mixed into the asphalt. It was especially designed to prolong the life of the asphalt surface by increasing hardness and abrasion resistance by a minimum of 30%. The increased abrasion resistance will also prolong the surface friction as it will slow the wear and rounding of the aggregates.

## 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

Asphalts that are exposed to moisture and/or deicing chemicals. Asphalt parking lots.

## 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.

## ADVANTAGES

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

## 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:** 7%

**SPECIFIC GRAVITY:** 1.02

**pH:** 11-12

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



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## DIRECTIONS FOR USE

Application by spray rig and/or brush to new or existing asphalt 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 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. 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 Extend ACP 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.

**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 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 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: 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 Extend ACP 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 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.**