



A Green Pathway to The Future

www.ePAVELLc.com

info@epavellc.com

# ePAVE I<sup>®</sup> POLYMER BASED PAVEMENT COATING - Preservation and Surface Treatment

## DESCRIPTION

**ePAVE I<sup>®</sup> Polymer-Based Pavement Coating**, a Polymer based pavement coating, is a durable, high-friction wearing surface designed to be placed on asphalt pavements with distresses due to oxidation, surface wear, or exposure to UV, chemicals, oils, fuels, as well as new asphalt pavements.

**ePAVE I<sup>®</sup>** is considered a cool pavement since it decreases the heat on the surface of the pavement.

**ePAVE I<sup>®</sup> Polymer-Based Pavement Coating** is also recommended for resurfacing concrete bridge decks, providing a lightweight, durable and skid resistant surface.

## WHERE TO USE

- Parking Lots
- Asphalt Walking Paths
- Oxidized Asphalt Pavements
- Athletic Surfaces
- HOA and Private Roads
- Repair of Wheel Path Rutting
- Golf Cart Pathways
- Airport taxiways
- Parking aprons
- Roads
- Concrete Bridge Decks
- Theme Parks
- School and University campuses

## ADVANTAGES

- 100% Environmentally Safe
- Reduces Facility Owner's Carbon Footprint
- Resistance to Chemicals, Oils, Fuels, etc
- Cost Effective Alternative to Seal Coat or Repaving
- Exceeds SRI Requirements for LEED<sup>®</sup> Certification
- Short Downtime
- No Milling Required
- No Odor or Tracking Issues
- No V.O.C. Emissions
- High Coefficient of Friction
- Rapid Setting
- Adheres to Asphalt and Concrete
- Aesthetically Pleasing.
- No Grade Transition Issues

## ADDITIONAL OPTIONS

- Broomed finished for anti-slip
- Tined Surface for enhanced friction
- Water-based Sealer for color variations
- Use on steel (helicopter pads, platforms, etc.)

## COLOR

- Available in light gray Solar Reflective (SR), Black, Dark Gray and assorted primary colors

## PACKAGING

### Small Kit

- **ePAVE I<sup>®</sup> Liquid Solution:** 5 Gallons
- **ePAVE I<sup>®</sup> Engineered Dry Blend Powder:** 250 Pounds

### Large Kit

- **ePAVE I<sup>®</sup> Liquid Solution:** 56 Gallons
- **ePAVE I<sup>®</sup> Engineered Dry Blend Powder:** 2,800 Pounds

## PRECAUTIONS

- Keep from freezing.
- Do not store in direct sunlight.
- Keep containers sealed when not in use.
- Store indoors in dry location.

## SHELF LIFE

- **ePAVE I<sup>®</sup> Liquid Solution:** 12 months in properly stored, unopened containers.
- **ePAVE I<sup>®</sup> Engineered Dry Blend Powder:** 6 months in dry, indoor area - to prevent possible caking, do not stack more than 2 pallets high.

## THEORETICAL COVERAGE

Applied as a single layer in most installations

- **Small Kit:** 300 to 425 Sq Ft
  - **Large Kit:** 3,500 to 5,000 Sq Ft
- Coverage estimates are for single layer installation at 1/16 inch (1.5mm) thickness on a moderately porous pavement surface. Actual consumption rates are dependent on many factors including, but not limited to: substrate texture and porosity, variations in application thickness and normal allowances for waste.

## APPLICATION

The **ePAVE I<sup>®</sup> Polymer-Based Pavement Coating** System is designed to be applied by the ePAVE Spreader and Device or other manufacturer approved equipment. Material to be applied exclusively by certified applicator.

## WASTE DISPOSAL

These products, when discarded or disposed of in their liquid and cured form are not listed as a hazardous waste in Federal Regulations. Dispose of in landfill in accordance with current local, state and federal regulations.

## MIXING

Mechanical mixing is required. For smaller areas, a 1/2 inch drill equipped with a "Jiffler" or "H" style mortar paddle mixer may be used. Mixing and placing equipment must be matched to the scale and scope of the project - consult ePAVE, LLC for recommended equipment packages.

Proper mixing equipment and techniques will blend quickly and thoroughly without developing unnecessary shear creating heat buildup that leads to false-set of the material. Always adhere to equipment manufacturer's guidelines and recommendations regarding mixing speed for proper blending of cementitious slurry materials.

- **Ratio of ePAVE Liquid to ePAVE Powder = 1 gallon per 50 lbs.**
- **Up to 24oz of clean, cool potable water may be added per 50lbs of ePAVE Powder.**

## Mixing sequence:

1. Add 85% to 90% of the required ePAVE I<sup>®</sup> Liquid Solution to the mixing container or mixer.
2. Mix slowly while gradually adding the ePAVE I<sup>®</sup> Engineered Dry Blend Powder.
3. Continue mixing slowly and consistently to a lump-free, homogenous consistency.
4. Add only as much of the withheld ePAVE I<sup>®</sup> Liquid Solution as needed to achieve desired workability.
5. Keep unused portions covered and out of direct sunlight.

Manufactured by ePAVE, LLC

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## DIRECTIONS FOR USE

### New or existing asphalt and concrete

1. Always follow Best Practice Installation Guidelines as established by ACI and ICRI.
2. Inspect surface for suitability. Extensive sub-base or substrate problems may require repairs outside the scope of ePAVE, LLC product line.
3. Repair deteriorated areas such as spalling, pop-outs, birdbaths, potholes, etc. with ePAVE product line to restore profile. Seal and repair cracks with crack repair system.
4. Ensure surface is free of all contaminants including oil, grease, dirt, laitance, fungus, efflorescence, mildew or any other contaminant that may prevent adhesion. Effective means of preparation include pressure washing, scarifying and shot blasting. If a degreaser product is required, use ePAVE, LLC® Concrete and Asphalt Degreaser or product approved for use by ePAVE, LLC®. Degreaser products must be completely removed by rinsing one or more times with clean water.
5. New asphalt should be allowed to weather for 30 days prior to application of **ePAVE I® Polymer-Based Pavement Coating**. If timing is critical, then new asphalt surfaces should be thoroughly degreased and pressure washed. Two washings are recommended to remove excess oils.
6. Prior to application, surface must be power washed, free of loose particles and debris and conditioned to Saturated Surface Dry (SSD).
7. Set up equipment and mix materials as previously described.
8. Apply **ePAVE I® Polymer-Based Pavement Coating** with approved application equipment.

## CURING

**ePAVE I® Polymer-Based Pavement Coating** On a sunny day (75°F with 50% to 75% relative humidity) the drying time is approximately 1 to 1 1/2 hours per single layer. The hotter the temperature and the drier the day, the faster the cure time. Protect from pedestrian traffic until product obtains compressive strength of 100 PSI. Protect from vehicles until material obtains sufficient compressive strength.

## SPECIAL CONDITIONS

- Application temperatures shall be a minimum of 50°F (10°C) and rising.
- Do not apply when rain is imminent or forecast within 10 hours of completed application.
- Substrate surface must be structurally sound.
- Previously sealed surfaces may require additional prep work (i.e. scarifying).

## RECOMMENDED TEMPERATURE RANGE

- Ambient and surface temperatures 50°F (10°C) and rising to 100°F (38°C) is the standard range for successful application.
- When ambient temperatures exceed 95°F (35°C) or substrate exceeds 120°F (48°C) the surface should be lightly misted with cool, clean water - DO NOT SATURATE beyond a damp condition (no standing water)

## PRODUCT PERFORMANCE PROPERTIES

Performance Standard	Results
Pot Life*	10 to 40 minutes
Open Time	10 to 25 minutes
Application Temperature Range	50°F to 100°F (10°C to 38°C)
Color: Available in light Gray Solar Reflective, Black, Dark Gray and assorted primary colors	
Initial Set (Vicat)*	15 - 60 minutes
Final Set (Vicat)*	30 minutes to 8 hours
Compressive Strength (3 Day) ASTM C-579	>3,550 PSI
Compressive Strength (28 Day) ASTM C-579	>6,220 PSI
Flexural Strength (3 Day) ASTM C-580	>1,265 PSI
Flexural Strength (28 Day) ASTM C-580	>2,239 PSI
Solar Reflectance Index ASTM C1549	32 SRI
Abrasion Resistance ASTM C-779	No statistical loss
Tensile Strength (1 Day) ASTM C-307	>299 PSI
Tensile Strength (3 Day) ASTM C-307	>673 PSI
Tensile Strength (28 Day) ASTM C-307	>969 PSI
Bond Strength - Slant Shear (3 Day) ASTM C-882	>1,126 PSI
Bond Strength - Slant Shear (28 Day) ASTM C-882	>2,700 PSI
Resistance to deicing chemicals ASTM C-672	No Scaling and visual rating 0 after 50 cycles
Resistance to freeze and thawing ASTM C-666	Relative dynamic modulus of 92% after 300 cycles
Flammability	Nonflammable

\*Dependent upon temperature, humidity and wind conditions

## WARNINGS AND FIRST AID

**All materials are formulated for industrial and professional use only.**

**Keep out of reach of children.**

- When exposed to air, the **ePAVE I® Liquid Solution** emits a slight ammonia vapor. Use of personal protective equipment (respirator, dust mask, etc.) is recommended to avoid breathing the vapors or the dust produced when mixing.
- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with plenty of water for 15 minutes and contact a physician immediately.
- For respiratory problems remove person to fresh air.

## STATEMENT OF RESPONSIBILITY

- Before installing user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.