

Asphalt Emulsion Pavement Sealer

1. PRODUCT NAME

Jennite AE

2. MANUFACTURER

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- **Advanced Formula:** Jennite AE is extremely durable due to its polymer fortified resin and fiber reinforced, high solids formula.
- **Prevents Oxidation:** Jennite AE protects against the drying action of the sun. Reduces raveling, cracking and deterioration.
- **Lustrous Black Finish:** Jennite AE restores that clean, new look.
- **Compatibility:** Jennite AE is made from an asphalt resin binder which is more compatible with new asphalt pavement. Does not promote hairline cracking.
- **No Burn Formula:** Contains no coal tar.
- **Environmentally Safe:** Jennite AE contains no harsh chemicals, has no odor and low VOC's and PAH's.

3. PRODUCT DESCRIPTION

Jennite AE is a concentrated, polymer modified petroleum resin emulsion specifically formulated as a weather protective, water resistant coating over asphalt pavements of airports, park-ing lots and driveways.

Packaging:

Bulk shipments are made in tank trucks. Also available in 55 gal. steel drums.

Color:

Jennite AE is a chocolate brown emulsion. After complete cure, Jennite AE is a dark satin black.

Basic Uses:

Jennite AE extends the service life and reduces maintenance costs of off-street asphalt pavements. Jennite AE protects such pavements from the destructive effects of water, sunlight and oxidation. Jennite AE, when mixed and applied according to manufacturers recommendations, provides a distinctive new-looking surface that is skid resistant, long-lasting and easy to clean.

Composition:

Jennite AE is a concentrated, high solids, mineral colloid stabilized, polymer modified asphalt emulsion. It is fortified with fuel resistant, high molecular weight, unvulcanized rubber. This fuel resistant rubber is hot blended into an asphalt binder base

prior to emulsification. The performance and bonding of Jennite AE to the pavement is enhanced by a multi-component surfactant formulation.

Limitations:

In the liquid state, Jennite AE must be protected from freezing. Do not store in direct sunlight or where temperature exceeds 120°F.

4. INSTALLATION

Preparatory Work:

The asphalt surface must be structurally sound, surface cured, and free from all loose or foreign matter prior to the application of Jennite AE.

Methods:

Jennite AE can be applied by spray, rubber-bladed squeegee, brush, or mechanical equipment specifically designed for this purpose. Due to the heavy bodied nature of the slurry-mixed Jennite AE, application by means of specialized equipment is recommended. This equipment can be of two types, high volume positive displacement airless spray or mechanical squeegee. Both types must be capable of keeping material thoroughly mixed and homogenous throughout the application process. All equipment used must be capable of supplying a sufficient quantity of material for uniform application over the entire width of the application mechanism to provide a

uniformly coated surface.

Mix Design:

Jennite AE is intended to be mixed with water and mineral aggregate to form a ready to use pavement sealer.

Per 100 gallons of Jennite AE

| Water | Sand | Yield |
|------------|--------------|--------------|
| 25-30 gal. | 500-600 lbs. | 152-157 gal. |

All sand used should be clean, dry, pure silica sand, free of contaminants. Medium fine sand with an A.F.S. rating of 50 to 70 gives best results. There should be no more than 2% retained on 30 mesh or coarser, no more than 10% retained on 140 mesh and no more than 0.3% retained on 200 mesh.

Application:

For use over sound asphalt pavement, the following application procedures are recommended for best results:

Application Rate per Coat

| | Gal/SY | Gal/SF |
|-------------|-----------|-------------|
| Concentrate | .10 | .011 |
| Mix | .15 - .16 | .016 - .017 |
| Primer | .015 | .0016 |

One gallon of concentrate will cover 90 square feet per coat. Multiply square yards of surface x 0.1 to determine gallons of concentrate per coat.

Coverage rates can vary with the application method and the age, texture, and porosity of the pavement to be sealed.

For low to moderate traffic areas, follow Application Specification NJ-S2 and apply Polyprime (Product Data Sheet 155) where recommended and two full sand slurry coats of Jennite AE.

For high traffic areas, follow Application Specification NJ-S3 and apply one coat of Polyprime and three full sand slurry coats of Jennite AE.

Each coat must be dry before additional applications. On a typical parking lot, a combination of application systems could be used. For example, two coats for the parking stalls and a third for the drive lanes where most of the wear occurs.

Application must be made when ambient temperatures and pavement temperatures are above 50°F. Good drying conditions above 50°F are required during the subsequent 8 hours and no temperatures below 50°F should be anticipated for 48 hours. Night time application is not recommended. It is recommended that the area over which the application is made be opened to use only after trial shows it to be dried and sufficiently cured to accept regular traffic. Lower temperatures, high humidity, clouds or shade, and lack of air movement retard cure.

Precautions:

Do not apply Jennite AE over chip seals, or sealers which contain gilsonite. Jennite AE is not recommended for use on portland cement concrete. Keep out of reach of children. Container should be closed when not in use. Contains petroleum distillates. Avoid breathing vapor or prolonged contact with skin or eyes. Flush immediately with water.

New asphalt should be allowed to cure for a minimum of 30 days prior to application and must not exhibit ribbing, crawling, nor show oil rings when 1 gal. of clean water is poured onto the surface.

Protect wet Jennite AE pavement sealer at all times from freezing and rain.

Consult specific Neyra material safety data sheet before use.

5. MAINTENANCE

As a rule, a clean, well-marked parking lot is safer and will last longer. Occasional flushing with water or the use of a contract cleaning service will help to retain an attractive appearance.

6. TECHNICAL DATA

Applicable Standards:

Jennite AE meets the composition and performance standards listed below when tested according to the following ASTM methods:

D140: *Sampling of Bitumous Materials*
 D244: *Standard Test Methods for Emulsified Asphalts*
 D529: *Testing of Bitumous Materials*
 D2939: *Standard Test Methods for Emulsified Bitumens used as Protective Coatings*

Physical Composition:

Jennite AE meets the following requirements when tested according to ASTM D2939:

| Requirements | Max | Min |
|------------------------|-----|------|
| Non-Volatiles % | 52 | 50 |
| Water % | 50 | 46 |
| Ash of Non-Volatiles % | 38 | 34 |
| Specific Gravity | - | 1.15 |

Drying Time:

When tested according to ASTM D2939, "set to touch" in 1 hour, exhibit "final set" in less than 8 hours.

Non-Flammability:

The cured coating shows no tendency to flash or ignite.

Adhesion & Resistance to Water:

The cured coating exhibits no penetration, blistering, loss of adhesion, nor tendency to re-emulsify after immersion for 24 hours.

Environmental Considerations:

Jennite AE is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure). Jennite AE is a water based material containing less than 10g/L (0.08 lbs./gal.) VOC content.

7. TECHNICAL SERVICES

Material safety data sheets, product and application recommendations, as well as assistance with special situations and field service are available upon request. Special project submittals are available through Neyra Customer Service.

8. WARRANTY

Neyra Industries, Inc. and our network of licensed Jennite contractors offer a Dual Protection Warranty. If Jennite AE is applied according to NJ-S2, a two-year written dual warranty is available. If Jennite AE is applied according to NJ-S3 with primer, a three-year written dual warranty is available. Call the Jennite Buyer Protection & Information Center at 800-543-7077.

The above specifications on product usage are believed to be true and accurate. Neyra Industries, Inc. guarantees that all materials manufactured comply with quality standards as described in the product data sheets. Because the application, handling, weather, workmanship, and equipment are beyond the control of this manufacturer, only the quality of the products as shipped is guaranteed. In no case will the liability of Neyra Industries, Inc. exceed the purchase price of the shipped materials.

9. ADDITIONAL INFORMATION

Neyra Industries, Inc. manufactures a full line of asphalt pavement maintenance and recreational surface products as well as application equipment sold and distributed nationally at our plants and through distributors and contractors. To find the supplier most convenient to you, please contact us.

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