

1. PRODUCT NAME

Neyra AE

2. MANUFACTURER

Neyra Industries, Inc.
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- **Environmentally Friendly:** Contains less than 0.1% Polycyclic Aromatic Hydrocarbon (PAH) content. It is also a low VOC, non-flammable coating that contains no coal tar or emits obnoxious odors.
- **Fast Dry & Curing:** Higher solids, polymer modified asphalt emulsion allows for a faster cure, opening to traffic faster.
- **Protects & Beautifies:** Neyra AE forms a tight seal that is impenetrable to the destructive effects of sun, water and chemicals giving your pavement a deep black long-lasting color.
- **Tough & Durable:** Neyra AE is a polymer modified, mineral reinforced asphalt emulsion blended with emulsifiers and surfactants for superior durability, adhesion and flexibility

3. PRODUCT DESCRIPTION

Neyra AE (Asphalt Emulsion) is an environmentally friendly asphalt emulsion containing high molecular weight polymers, mineral fillers and modified with specialized surfactants that is formulated as a weather protective, water resistant coating for asphalt surfaces.

Packaging:

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

Color:

In the liquid state, Neyra Asphalt Emulsion is a dark brown / black emulsion. When dry, Neyra Asphalt Emulsion is a deep black color.

Basic Uses:

Neyra AE extends the service life and reduces maintenance costs of asphalt pavements, protecting them from the destructive effects of water, sunlight and oxidation. When mixed and applied according to manufacturer's recommendations, Neyra AE provides a new looking, long lasting surface that is easy to clean.

Composition:

Neyra Asphalt Emulsion is an environmentally friendly, concentrated, high solids, mineral reinforced asphalt emulsion fortified with a high molecular weight polymer. The binder base is emulsified in our high temperature, high shear, state of the art manufacturing

process. The hot blending process of the high molecular weight polymer and asphalt base resin along with other quality raw materials creates a homogeneous coating formulated to be job mixed with high sand loads, providing an exceptionally tough, long lasting, skid resistant surface.

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 Neyra AE.

Methods:

Neyra AE can be applied by spray, squeegee, brush or mechanical equipment designed for this purpose. Due to the heavy body of the Neyra AE slurry mix, 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:

Neyra AE is a highly concentrated material intended to be mixed with

water and mineral aggregate to form a ready to use pavement sealer. **Do not over dilute.**

Use only Neyra additives specifically designed for Neyra AE. **Do not use other additives.** They are not chemically compatible with Neyra AE and will degrade the emulsion.

Per 100 gallons of Neyra AE

Water	Sand	Yield
15 -20 gal.	300-500 lbs.	129-143 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	.13 - .15	.014 - .016

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, we recommend applying two full sand slurry coats. For high traffic areas, a third coat is advised. For highly oxidized surfaces, a primer, Polyprime (Product Data Sheet 155) is recommended. 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 dry to accept regular traffic. Lower temperatures, high humidity, clouds or shade, and lack of air movement slow drying time. Do not apply when rain is imminent. *Caution:* Application of this product in marginal weather conditions or over dilution will result in premature wear.

Precautions:

Do not apply Neyra AE over chip seals, or sealers which contain gilsonite. Neyra 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 ribboning, crawling, nor show oil rings when 1 gal. of clean water is poured onto the surface.

Protect wet Neyra AE 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:

Neyra AE meets or exceeds the composition and performance standards listed in the chart on page 3.

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 Customer Service.

8. WARRANTY

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.

Caution: Application of this product in marginal weather conditions or improper mix designs can result in premature wear or product failure.

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ASTM	Test Description	Result
Base Asphalt		
D5	Penetration of Bituminous Materials	10-45mm
D36	Softening Point of Asphalt	70 C min.
D113	Ductility of Bituminous Materials	5-20cm
NEYRA	Percent Polymer Solids on Asphalt by weight	3
Liquid Emulsion		
D2939	Uniformity of Asphalt Emulsion	Pass
D6930	Asphalt Emulsion Settlement and Storage Stability	<15% in 24 hrs.
D2939	Wet Film Continuity	Pass
D2939	Density of Asphalt Emulsion	10 Lbs/ Gal. Min.
D2939	Residue by Evaporation	50% Min.
D95	Water Content	50% Max.
D2939	% Ash of the Non-Volatile	50% Min.
E70	pH of Aqueous Solutions Using Glass Electrodes	7-10 pH
D562	Viscosity using Stormer Viscometer	75-90 ku
D93	Flash Point of Asphalt Emulsion Liquid	> 450 F
Dried Film		
D36	Softening Point of Asphalt Residue	> 200 F.
D2939	Film Dry Time at 73.4 F and 50% Relative Humidity	2-4 hrs.
D4060	Taber Abrasion Resistance	< 1% Loss by weight
D3910	Wet Track Abrasion Resistance	< 15 grams / ft.3 loss
D522	1/4" Mandrel Bend Test	Pass - no cracking
D870	Water Resistance of Coatings Using Water Immersion	Pass - no loss of adhesion
D4585	Water Resistance of Coatings Using Condensation	Pass - no loss of adhesion
D1735	Water Resistance of Coatings Using Water Fog Apparatus	Pass - no loss of adhesion
D6904	Resistance to Wind Driven Rain	Pass - no loss of adhesion
D2939	Resistance to Heat	Pass - no blistering
D2939	Resistance to Kerosene	Pass
D2939	Resistance to Impact	Pass - no loss of adhesion
D4799	Accelerated Ultra Violet Weathering (QUV), 1,000 hours	Pass - no fading

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