

### 1. PRODUCT NAME

**PaveShield®**

### 2. MANUFACTURER

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- **Tough & Durable:** Duraflex, the proprietary high molecular weight polypetrol resin in PaveShield, creates tough and long lasting protection.
- **Protect & Beautify:** PaveShield's tight seal forms an impenetrable barrier to protect against the destructive effects of sun, water & chemicals, giving your pavement a deep black color and making it easier to clean.
- **Superior Bond:** PaveShield is chemically reinforced with Duraflex, enhancing the adhesion to the asphalt pavement, rejuvenating the surface and preventing raveling.
- **Environmentally Friendly:** PaveShield is a low VOC, non-flammable coating that emits no obnoxious odors or fumes and contains no coal tar to irritate skin. PaveShield does not track or stain tile floors.

### 3. PRODUCT DESCRIPTION

PaveShield is a polypetrol resin emulsion specifically formulated as a weather protective, water resistant coating for all asphalt surfaces.

#### Packaging:

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

#### Color:

In the liquid state, PaveShield is a reddish brown emulsion. When dry, PaveShield is a deep black coating.

#### Basic Uses:

PaveShield 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, PaveShield provides a new looking, long lasting surface that is easy to clean.

#### Composition:

PaveShield is a concentrated, mineral colloid stabilized emulsion fortified with Duraflex, our proprietary blend of high molecular weight polymer and petroleum resins. This binder base is emulsified in our high temperature, high shear, state-of-the art manufacturing process. The superior fusion of Duraflex and other quality raw materials creates a homogeneous coating capable of high sand loads, providing an exceptionally tough, long lasting, skid resistant surface.

#### Limitations:

In the liquid state, PaveShield must be protected from freezing. Do not store 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 PaveShield.

#### Methods:

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

PaveShield 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 PaveShield. **Do not use other additives.** They are not chemically compatible with PaveShield and will degrade the emulsion.

Per 100 gallons of PaveShield

Water	Sand	Yield
20-25 gal.	300-500 lbs.	133-147 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. *Caution:* Application of this product in marginal weather conditions or overdilution will result in premature wear.

#### Precautions:

Do not apply PaveShield over chip seals, or sealers which contain gilsonite. PaveShield 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 PaveShield 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:

PaveShield 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

#### 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.

#### Physical Composition:

PaveShield meets the following requirements when tested according to ASTM D2939:

Requirements	Max	Min
Non-Volatiles %	-	47
Water %	53	-
Ash of Non-Volatiles %	40	30
Specific Gravity	-	1.1

#### Environmental Considerations:

PaveShield is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure). PaveShield 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

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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