

## Cool Weather Formula

### 1. PRODUCT NAME PaveShield® Cool Weather Formula

### 2. MANUFACTURER

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### 3. PRODUCT DESCRIPTION

PaveShield Cool Weather Formula 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.

#### Color:

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

#### Basic Uses:

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

#### Composition:

PaveShield Cool Weather Formula 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

- **Extend Your Sealcoating Season:** PaveShield Cool Weather Formula can be applied at temperatures down to 40°F.
- **Tough & Durable:** Duraflex, the proprietary high molecular weight polypetrol resin in PaveShield Cool Weather Formula, creates tough and long lasting protection.
- **Protect & Beautify:** PaveShield Cool Weather Formula'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.
- **Environmentally Friendly:** PaveShield Cool Weather Formula is a low VOC, non-flammable coating that emits no obnoxious odors or fumes and contains no coal tar to irritate skin. PaveShield Cool Weather Formula does not track or stain tile floors.

homogeneous coating capable of high sand loads, providing an exceptionally tough, long lasting, skid resistant surface.

#### Limitations:

In the liquid state, PaveShield Cool Weather Formula 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 Cool Weather Formula.

#### Methods:

PaveShield Cool Weather Formula can be applied by spray, squeegee, brush or mechanical equipment designed for this purpose. Due to the heavy body of the PaveShield Cool Weather Formula 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 Cool Weather Formula 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 Cool Weather Formula. **Do not use other additives.** They are not chemically compatible with PaveShield Cool Weather Formula and will degrade the emulsion.

Per 100 gallons of PaveShield Cool

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 40°F. Good drying conditions above 40°F are required during the subsequent 8 hours and no temperatures below 40°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 sufficiently dried to accept regular traffic. Lower temperatures, high humidity, clouds or shade and lack of air movement slow drying time.

#### Precautions:

Do not apply PaveShield Cool Weather Formula over chip seals, or sealers which contain gilsonite. PaveShield Cool Weather Formula 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 PaveShield Cool Weather Formula 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 Cool Weather Formula 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 Cool Weather Formula 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 Cool Weather Formula is considered non-hazardous when tested according to the EPA's TCLP (Toxicity

Characteristic Leaching Procedure). PaveShield Cool Weather Formula 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 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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