

Premium Polymer Fortifier for Asphalt Emulsion

1. PRODUCT NAME

Duraflex™

2. MANUFACTURER

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- **Superior Durability:** Improved toughness and lengthened life of coating.
- **Fast Setting:** Speeds up drying of pavement sealer; even in cool or cloudy conditions.
- **Beautifies:** Reduces scuffing and tearing and creates a more uniform, darker, black color of the finished coating.
- **Quick Access:** Allows owner to open pavement to traffic sooner.
- **Less Dilution:** More solids on the ground.

3. PRODUCT DESCRIPTION

Duraflex is a water-based polymer-latex additive designed as a fortifier for PavShield (Product Data Sheet 103), an asphalt emulsion pavement sealer. PavShield fortified with Duraflex will exhibit superior durability and improved drying time than unfortified pavement sealers.



Packaging:

Available in 5 gal. pails, 55 gal. steel drums and 275 gal. totes.

Color:

Duraflex as packaged is dark gray. When added to PavShield it will enhance and darken the color of the applied sealer.

Basic Uses:

Duraflex, when added to PavShield, will make the dry coating blacker, tougher and more resistant to higher traffic loads and scuffing. It is especially recommended in applications where initial toughness is critical due to high traffic volume and/or the need for immediate use of the pavement.

Composition:

As shipped, Duraflex is a water-based polymer latex.

Limitations:

Duraflex must be protected from freezing. Do not store in direct sunlight or in temperature exceeding 120°F.

4. INSTALLATION

Preparatory Work:

The asphalt surface must be structurally sound, cured and free from all loose or foreign matter prior to the application of PavShield fortified with Duraflex.

Methods:

The application of PavShield fortified with Duraflex may be by spraying, rubber-bladed squeegee, brush or mechanical equipment specifically designed for this purpose. 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:

Two percent (2%) Duraflex added per 100 gals. of PavShield concentrate will show significant improvement in the performance of the applied coating.

Per 100 Gallons of PavShield Concentrate

Water	Duraflex	Sand	Yield
20 gal.	2 gal.	300-500 lbs.	140-150 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	.14 - .16	.016 - .018

One gallon of concentrate will cover 90 sq. ft. Multiply sq. yds. of surface x .10 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 retard drying time.

Precautions:

Keep out of reach of children. Container should be closed when not in use. Do not apply sealers mixed with Duraflex over chip seals or sealers which contain gilsonite.

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 sealer mixed with Duraflex 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 fortified with Duraflex 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 4 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:

As supplied, Duraflex meets the following requirements when tested according to ASTM D2939:

Requirements	Max	Min
Non-Volatiles %	-	30
Water %	70	-
Specific Gravity	-	1.0

Environmental Considerations:

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

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.

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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