



## **FOAR PAVERON PLUS**

*BASE COMPONENT OF FUEL RESISTANT COAL TAR BASED SEAL SYSTEM WITH RUBBER LATEX MODIFIER*

FOAR PAVERON PLUS is a smooth, dark grey/black product designed to protect both old and new asphalt pavement from moisture and oxidation. FOAR PAVERON PLUS is made from specially modified superior coal tar, blends of mineral colloids and proprietary additives such as emulsifier, stabilizer, and specialty chemicals.

In addition to this FOAR PAVERON PLUS has a rubber latex modifier copolymer (complying with FAA items P-627 and P-631 imported from Japan) hot blended during the manufacturing process. The introduction of rubberized latex further improves durability, fuel resistance, drying time, color uniformity, and length of cure time when part of a seal system.

The primary difference between PAVERON PLUS and standard PAVERON 5727 is the addition of rubber latex to the coal tar based emulsion. FOAR's manufacturing plant has a special dosing and online mixing system for comprehensive blending of rubber latex into the emulsion at a high temperature. The addition of rubber latex in a factory environment versus on the job site offers superior performance when part of a seal system. Furthermore, as on the job measuring and blending of rubber latex is not required mixing time is decreased.

FOAR PAVERON PLUS is highly viscous and requires dilution with water as per job mix formula to bring its viscosity and density to working level.

### **Benefits**

#### *Protects from Fuel and Chemical Spillage*

FOAR PAVERON PLUS as part of a sealer provides excellent protection against deterioration due to fuel and oil leaks as well as most chemical spills. The product makes

sealers resistant to gasoline, oils, kerosene, jet fuels, alcohols, de-icing chemicals and many other petroleum solvents and industrial chemicals.

FOAR PAVERON PLUS is resistant to these substances as the direct result of its superior rubberized coal tar pitch emulsion formulation. This formula provides the barrier needed to protect paved areas from damage caused by these substances. Instead of seeping into asphalt pavement, these substances simply remain on the treated surface from where they can evaporate or be cleaned up quickly and easily.

#### *Prolongs Pavement Life*

Water infiltration, freeze/thaw damage, erosion, oxidation, and petroleum & chemical based deterioration are the most common causes of asphalt deterioration. By protecting asphalt pavements from all of these natural and man-made enemies, FOAR PAVERON PLUS makes pavements last longer.

#### *Reduction in Maintenance Costs*

Pavements protected by FOAR PAVERON PLUS cost less to maintain because it protects against the causes of cracks, erosion, freeze/thaw damage and chuckholes.

#### *Quick Application*

FOAR PAVERON PLUS requires no heating prior to application and can be mixed with water and aggregate as per the job mix formula. The resulting rubberized slurry seal system is then spread on pavement surface by a sealcoat spray and/or squeegee type application machine to ensure the proper coating and sealing of the asphalt surface.

## **FOAR Innovative Technologies (Pvt.) Ltd.**

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## FOAR PAVERON PLUS (continued)

### Base Component: Standard Coal Tar Emulsion Complying with ASTM D 5727

#### *Physical Characteristics*

Minimum density @ 25 °C	1.20 g/cm <sup>3</sup>
Drying time (to touch)	6-8 hours
Flash point (water based)	N/A
Color of cured Film	Black/Brown

#### *Performance Characteristics*

Workability	Applicable by spray or squeegee
Resistance to heat @ 80 °C	No sagging, blistering, or slipping
Flexibility	No cracking or separation
Maximum resistance to volatilization	15%

#### *Chemical Characteristics*

Non-volatile content	47% of weight (min.)
Volatile content	53% of weight (max.)
Ash % of non-volatile content	30-40% by weight
Solubility	20% of non-volatile weight in CS <sub>2</sub> (min.)
Resistance to petroleum solvent	Excellent
Resistance to water	Excellent

### **Base Component Compliance**

- i) Coal tar based emulsion complies with ASTM D 5727 (superseded U.S. Federal Specification RP-355e) prior to rubber latex addition
- ii) FAA items P-625, P-627, and P-628 (clause 2.2)
- iii) FAA items P-630 and P-631 (clause 2.1)

**Disclaimer: Characteristics may differ slightly from above in terms of density and non-volatile content due to rubber latex addition into standard coal tar based emulsion.**

### Additive Component: Rubber Latex

Solid %age by weight	≥ 40%
Copolymer type	Acrylonitrile:Butadiene
Copolymer ratio	40:60 (+10)
Density @ 25 °C	1.00 g/cm <sup>3</sup> (approx.)

### **Additive Component Compliance**

- i) FAA items P-627 and P-628 (Clause 2.4)
- ii) FAA item P-631 (Clause 2.3)

### **Coal Tar Based Sealing System**

This rubberized coal tar based emulsion combines two components of a coal tar based sealing system. The design mix of FOAR PAVERON PLUS is 100 parts standard coal tar emulsion (FOAR PAVERON 5727) and 4 parts rubber latex. Below is a guideline for US FAA compliant rubberized slurry seal systems:

#### ***Per 104 Liters of FOAR PAVERON PLUS (100 L PAVERON 5727 + 4 L Rubber Latex)***

US FAA Standard	Water (L)	Aggregate (kg)	Application Rate (L/m <sup>2</sup> /coat)
P – 627	65 (max.)	35 – 96	0.45 - 0.91
P – 631	25 – 70	36 – 84	0.54 - 0.91

### **Quality Control**

FOAR's quality control system ensures strict quality check at all stages of production and comprehensive testing of each lot as per requirement of relevant standards. The organization's quality management system is certified to conform to ISO 9001:2015.

### **Packaging**

208 liter drums

### **Storage**

To preserve the product drums must be kept in original sealed condition. For better result drums must be stored in horizontal position under shade away from direct sunlight.

### **Shelf Life**

One year from date of manufacturing

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