



## PolyTar® Heavy Duty Pavement Sealer

**DESCRIPTION:** GemSeal® PolyTar® is a premium heavy duty, superior performance, polymer-modified refined tar emulsion pavement sealer containing a high molecular weight polymer which has been cross-linked with refined tar (RT-12) to enhance durability, adhesion, elasticity and wear resistance. PolyTar provides a cost effective measure to extend the service life of all asphalt surfaces.

### FEATURES:

- Formulated with refined tar (RT-12) chemically cross-linked with selected high molecular weight polymer compounds prior to emulsification, resulting in superior performance not achievable by other processes.
- Protects all asphalt surfaces including commercial and residential parking areas and driveways.
- Resists gasoline and oil penetration
- Manufactured in a continuous colloid mill process for consistent and fine emulsion particle size.
- Exhibits outstanding wear resistance, adhesion and flexibility for long-term durability.
- Protects pavements from oxidation by forming a tough protective skin with a deep black color.
- Weatherproofs and seals porous asphalt surfaces to prevent damaging effects of water penetration.

### PHYSICAL PROPERTIES:

Property	Max.	Min.
Water (%)	60	---
Non-Volatile (%)	---	39
Ash (%)	40	30
Solubility in CS <sub>2</sub> (%)	---	20
Sp. Gr. @ 77°	1.20	1.14
Polymer to RT-12 Ratio (Vol%)	---	6
Tan Delta (G''/G'), 60°C	4.5	---

### APPLICABLE SPECIFICATIONS & STANDARDS:

**ASTM D-6945;** Standard Specification for Emulsified Refined Coal-Tar (Ready to Use, Commercial Grade)

**ASTM D-3320;** Standard Specification for Emulsified Coal Tar Pitch (Mineral Colloid Type).

**ASTM D-490;** Standard Specification for Road Tar.

**ASTM D-3423;** Standard Practice for Application of Emulsified Coal Tar Pitch.

**ASTM D-2939;** Standard Test Methods for Emulsified Bitumens Used as Protective Coatings

**ASTM D-4866;** Performance Standard for Coal Tar Pitch Emulsion Pavement Sealer Foundations Containing Mineral Aggregates and Optional Polymeric Admixtures.

**AASHTO TP5-97;** Provisional Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer.

### SURFACE PREPARATION:

Pavement surface must be sound, free of debris, vegetation, dust, oils, grease and detergent residues. Accumulations of petroleum deposits, tree sap, and dirt should be scraped clean and treated with GemSeal Tar Prime.

Narrow surface cracks should be filled with GemSeal Pourable Crack Filler, GemSeal Trowelable Crack Filler, GemSeal Crack-Flex Pro/Pro-S, or other suitable hot-applied joint sealant. Wide cracks, severely distressed, alligatored, or deteriorated pavement surfaces should be repaired.

New asphalt paving or repair patches should be allowed to cure a minimum of 60 days at temperatures of 60°F or above before seal coating begins. New Asphalt paving or repair patches should not show oil rings when 1 gallon of clean water is poured onto the surface.

### MIX DESIGNS & APPLICATION RATES:

Use	Coats	PolyTar <sup>3</sup> (GAL)	Water <sup>2</sup> (GAL)	Graded <sup>1</sup> Aggregate (LB)	Application Rates Gal/Sq.Yd.
Low Traffic	1st	100	0 - 10	200 - 300	0.10 - 0.12
	2nd	100	0 - 10	0 - 300 <sup>5</sup>	0.08 - 0.12
Medium Traffic	1st	100	0 - 10	200 - 300	0.10 - 0.15
	2nd	100	0 - 10	0 - 300 <sup>5</sup>	0.10 - 0.12
High Traffic	1st <sup>4</sup>	100	0 - 10	200 - 300	0.10 - 0.15
	2nd	100	0 - 10	200 - 300	0.10 - 0.12
	3rd	100	0 - 10	0 - 300 <sup>5</sup>	0.08 - 0.12

1. Mineral Aggregate – Clean, washed, well graded silica or boiler slag mineral aggregate of 40-70 mesh is recommended to provide added traction to the cured coating, in addition to filling hairline voids in the asphalt. Mix designs containing greater than 300 lb. aggregate per 100 gal. GemSeal PolyTar are not recommended.
2. Additional water need only be added when using aggregate in the final coat mix design.
3. GemSeal PolyTar is produced from a cross-linked polymer modified refined tar (RT-12), and requires **NO** additional additives except graded aggregate or water. Use of any other additives is strongly discouraged, may damage performance, and will void Limited 1-Year Product Warranty.
4. 1st Coat is applied to entrances, exits, high traffic lanes, and turning radii.
5. Aggregate may be added to the final coat when added skid resistance is desired.



## **PolyTar<sup>®</sup> Heavy Duty Pavement Sealer**

### **APPLICATION:**

GemSeal PolyTar can be applied using spray or mechanical squeegee equipment capable of controlled, uniform distribution of material conforming to mix designs and application rates specified. Material can also be applied with brush or rubber squeegee applicator designed for these products.

GemSeal PolyTar should be applied only when pavement and ambient temperatures are continuously above 50°F for at least 24 hours following application and no rain is forecast for that period. Allow adequate drying time between successive coats. Cooler temperatures (below 70°F) and/or damp or overcast conditions will lengthen curing times.

Note: Sealcoating is not recommended for enclosed or permanently shaded parking areas such as underground parking garages.

### **PACKAGING:**

Available in 55-gallon drums and tank truck up to 4,500 gallons.

### **ATTENTION:**

GemSeal PolyTar should be protected from freezing.

### **CAUTION:**

Both surface and ambient temperature shall be a minimum of 50°F and rising during application. Do not apply if temperature is expected to drop below 50°F, or if rain is expected in the forecast within a 24 hour period.

### **MANUFACTURING & CUSTOMER SERVICE:**

**Call (866) 264-8273 to find the nearest GemSeal location to purchase PolyTar Pavement Sealer.**

GemSeal Pavement Products  
Corporate Headquarters:  
3700 Arco Corporate Drive, Suite 425  
Charlotte, NC 28273

GemSeal Pavement Products warrants that for a period of one (1) year from date of purchase this product shall be free from manufacturing defects and shall meet or exceed performance standards listed in the technical data sheet for the product at the time of sale, if used as directed and within the stated shelf life. This Limited Warranty applies only if the product is stored, used, and applied over a properly prepared substrate in strict accordance with applicable specifications and instructions issued by GemSeal Pavement Products. The Limited Warranty will not apply if the product is altered, modified, or misused after it has left the control of GemSeal Pavement Products. GemSeal Pavement Products will not be responsible for defects caused by factors beyond its control, including but not limited to workmanship, application equipment, weather, acts of God, structural failure, condition or movement of substrate, improper additives, poor drainage, ponded water, improper maintenance, damage from snow removal equipment, and normal wear and tear. GemSeal Pavement Products does not warrant that the product or any method of use or application would be suitable for any particular site conditions.

All warranty claims must be submitted in writing, with proof of purchase, to the following address: 3700 Arco Corporate Drive, Suite 425, Charlotte, NC 28273. Unused portions of product must be returned upon request. Replacement of defective product or, at GemSeal Pavement Products' option, refund of the purchase price of defective product shall be the buyer's sole remedy under this Limited Warranty. In no event shall GemSeal Pavement Products be liable for any damages in excess of the purchase price of the defective product. This Limited Warranty does not cover labor costs for product application, replacement, or repair. GEMSEAL PAVEMENT PRODUCTS SHALL IN NO EVENT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOST SALES OR PROFITS, BUSINESS INTERRUPTION, DELAYS, PHYSICAL DAMAGE TO OTHER MATERIALS OR PROPERTY, OR LOSS OF USE OF PROPERTY.

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