



## Technical Data

# Guardian PM Asphalt Emulsion Pavement Sealer

REV 7/24

### DESCRIPTION:

GemSeal Guardian PM is a high performance pavement sealer emulsion manufactured from modified asphalt resin with polymers for use on asphalt surfaces. Guardian PM provides outstanding adhesion, flexibility and durability. It weatherproofs asphalt surfaces, seals against penetration by water, resists oil and fuel drippings from cars, trucks and aircraft, and blocks the destructive drying action of the sun by forming a tough protective membrane with a deep black color. Guardian PM provides a cost effective measure to extend the service life of asphalt surfaces.

### FEATURES:

- Water based, low-VOC formula - contains less than 50 grams per liter. Polymer modified for outstanding adhesion, flexibility and durability.
- Formulated specifically to protect and enhance asphalt pavement surfaces, including commercial and residential parking areas and driveways.
- Guardian PM is manufactured in a colloid mill process that provides a uniform particle dispersion for product consistency and color quality.
- Weatherproofs and seals porous asphalt pavement surfaces, preventing damaging and erosive effects of water penetration.
- Guardian PM does not require additional latex additives because it is made using asphalt resin with polymers.
- Protects pavements from oxidation by forming a tough protective membrane with a deep black color.
- Enables outstanding wear resistance for longevity against traffic.

### PHYSICAL PROPERTIES:

Property	Max.	Min.
Water (%)	60	53
Non-Volatile (%)	47	40
Ash (%)	42	30
Sp. Gr. @ 77°	1.16	1.12

### SURFACE PREPARATION:

Pavement surface must be structurally sound, free of debris, vegetation, dust, oils, grease and

detergent residues before applications of sealer. Accumulations of petroleum deposits, tree sap and dirt should be scraped clean and treated with GemSeal Tar Prime oil spot primer.

Narrow surface cracks should be filled with GemSeal Pourable Crack Filler, GemSeal Trowelable Crack Filler, or a suitable hot-applied joint sealant. Wide cracks, severely distressed, alligatored or deteriorated pavement surfaces should be repaired before sealcoating.

New asphalt paving or repaired patches should ideally be allowed to cure for 60-90 days at temperatures of 60°F or above before seal coating begins. To test for readiness for sealcoating, new asphalt paving or repair patches should not show oil sheen or beading of water when a gallon of clean water is poured onto the surface.

### MIX DESIGNS:

GemSeal FedSpec is a concentrate designed to be thoroughly blended with potable water, mineral aggregate and additives in proportions according to the mix designs described in the table below.

Guardian PM (GAL)	Graded Aggregate <sup>2</sup> (LB)
100	200-400

- 1. No additional dilution water** is required. Guardian PM is ready to apply after the recommended addition of aggregate filler is mixed in.
- 2. Mineral Aggregate** - GemSeal recommends adding clean, washed, and well graded medium-to-fine silica sand or crushed boiler slag to provide adequate slip and skid resistance, for hairline cracks and small voids and to improve wear resistance of the cured coating. 2 lbs/gallon of 40-70 mesh size aggregate is recommended but up to 4 lbs/gallon can be added where pavement conditions are very rough and porous or where additional friction characteristics are desired.
- 3. Guardian PM** is manufactured from an asphalt resin with polymers and does not require additional latex additives. Use of such additives with Guardian PM may void product warranty at manufacture's sole discretion.

### APPLICATION STANDARDS:

GemSeal Guardian PM meets the following standards listed below:

- ASTM D 140
- ASTM D 466
- ASTM D 2939
- ASTM D 244
- ASTM D 529



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**APPLICATION RATE:**

0.11-0.15 Gal/Sq.Yd. (per coat) or 60-82 Sq.Ft./Gal (per coat)

Use	Application Rate Gal/Sq.Yd.	Coats
Low Traffic	0.11-0.13	2
Medium Traffic	0.11-0.15	2
High Traffic	0.11-0.15	3

**APPLICATION:**

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

GemSeal Guardian PM should be applied ideally 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. For best long term performance, allow a minimum of 4 hours of drying time between successive coats. Allow sealer to cure 24 hours after final coat before opening to traffic. Application in cooler temperatures (below 60°F), high humidity and/or damp or overcast conditions may significantly lengthen curing times.

**Notes:** Sealcoating is not recommended for enclosed or permanently shaded parking areas such as underground parking garages. Application in such conditions shall void product warranty.

**PACKAGING:**

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

**SERVICE:**

Timely service is available within 300 mile radius of our manufacturing facilities.

**ATTENTION:**

Buyer shall protect GemSeal Guardian PM from freezing. Freezing shall void product Warranty.

**CAUTION:**

Causes serious eye irritation. May cause cancer. Causes damage to lungs through prolonged or repeated exposure.

**WARNING:**

This product contains Crystalline Silica, Quartz and may also contain other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Fourteen percent of the mixture consists of ingredient(s) of unknown acute toxicity.

**MANUFACTURING & CUSTOMER SERVICE:**

Visit [gemsealproducts.com](http://gemsealproducts.com) or phone 866-264-8273 to find the location near you.

**LIMITED WARRANTY**

The statements made on this technical data sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.