



## Guardian AE Asphalt Emulsion/Pavement Sealer Concentrate

**DESCRIPTION:** GemSeal® Guardian AE Concentrate is a premium modified-resin asphalt emulsion pavement sealer. GemSeal® Guardian AE weatherproofs asphalt surfaces, seals against penetration by water, oil and blocks the destructive drying action of the sun by forming a tough protective membrane with a deep black color. Guardian AE provides an excellent cost effective measure to extend the service life of all asphalt surfaces.

**FEATURES:**

- Water based, Low VOC-less than 100 grams per liter. Fortified with proprietary compounds for added durability and longevity.
- Formulated specifically to protect all asphalt surfaces including commercial and residential parking areas and driveways
- Guardian AE, manufactured in our state-of-the-art, high shear colloid mill process, provides a more uniform particle dispersion for a superior molecular bond to asphalt surfaces.
- Weatherproofs and seals porous asphalt surfaces, preventing damaging effects of water penetration
- Protects pavements from oxidation by forming a tough protective skin with a deep black color
- Exhibits outstanding wear resistance utilizing a modified-resin asphalt

**SURFACE PREPARATION (cont.):**

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, alligator or deteriorated pavement surfaces should be repaired. New asphalt paving or repair patches should be allowed to cure for 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:**

GemSeal® Guardian AE 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.

GemSeal® Guardian AE	Water	Graded Aggregate <sup>1</sup>	Latex <sup>2</sup> Polymer
(GAL)	(GAL)	(LB)	(GAL)
100	15-25 <sup>3</sup>	300-400 <sup>4</sup>	1-3

1. Mineral Aggregate - Introduction of clean, washed, well graded, medium to fine silica or boiler slag mineral aggregate is recommended to provide added traction to the cured coating, in addition to filling hairline voids in the asphalt. 40-70 mesh aggregate size is recommended.
2. Latex Additives - Field proven in mix designs for best performance with GemSeal® Guardian AE should include the use of GemSeal® Rapid Set or GemSeal® GuardFlex polymer fortifiers.
3. Mix designs containing in excess of 25 gal water per 100 gal GemSeal® Guardian AE are not recommended as curing and wear can be affected.
4. Mix designs containing more than 400 lb aggregate or more than 4 gal GemSeal® Rapid Set or GemSeal® GuardFlex per 100 gal GemSeal® Guardian AE are not recommended.
5. Use only GemSeal polymer fortifiers specifically designed for Guardian AE. Do not use other additives. They are not chemically compatible with Guardian AE and will degrade the emulsion.

**PHYSICAL PROPERTIES:**

Property	Max.	Min.
Water (%)	51	47
Non-Volatile Solids (%)	53	49
Ash (%)	42	30
Sp. Gr. @ 77°	1.20	1.13

**APPLICATION STANDARDS:**

GemSeal® Guardian AE meets the following standards listed below:

- |             |            |
|-------------|------------|
| ASTM D 140  | ASTM D 244 |
| ASTM D 466  | ASTM D 529 |
| ASTM D 2939 | ASTM B 117 |

**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.



# Guardian AE Asphalt Emulsion Pavement Sealer Concentrate

**APPLICATION RATE:**

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

Pavement Use	Application Rate gal/sq.yd.	Coats
Low Traffic	.11 - .13	2
Moderate Traffic	.11 - .15	2
High Traffic	.11 - .15	3

**APPLICATION:**

GemSeal® Guardian AE 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® Guardian AE 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 60°F) and/or high humidity, damp or overcast conditions will lengthen curing times.

**Notes:** 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.

**SERVICE:**

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

**ATTENTION:**

GemSeal® Guardian AE should be protected from freezing.

**CAUTION:**

Contains asphalt. Keep out of reach of children. Do not take internally. Avoid prolonged or repeated contact with skin or breathing of vapors. In case of contact with eyes, flush with plenty of water, and seek immediate medical attention. Use with adequate ventilation. Do not use in confined areas.

**MANUFACTURING & CUSTOMER SERVICE**

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Baltimore, MD (866) 264-2873 410-238-3414 - Fax	Chicago, IL (866) 264-2873 847-678-2652 - Fax	Detroit, MI (866) 264-2873 734-753-9033 - Fax	Memphis, TN (866) 264-2873 901-755-2590 - Fax	

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