



Guardian AE Asphalt Based/Pavement Sealer Concentrate

DESCRIPTION: GemSeal® Guardian AE Concentrate is a premium modified-resin asphalt emulsion pavement sealer. GemSeal® Guardian AE is designed to protect and beautify asphalt pavement surfaces. GemSeal® Guardian AE extends the service life and enhances the appearance, to provide a cost effective preventive maintenance coating.

FEATURES:

- Environmentally friendly, low VOC, non flammable and contains no coal-tar
- Formulated specifically to protect asphalt surfaces including parking lots, shopping malls and driveways
- Colloid milled for superior wearability, consistency and superior bond
- 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

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 ¹	Latex ² Polymer
(GAL)	(GAL)	(LB)	(GAL)
100	15-25 ³	200-500 ⁴	3-5 ⁴

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 polymer fortifiers.
3. Mix designs containing in excess of 30 gal. water per 100 gal. GemSeal® AE are not recommended as curing and wear can be affected.
4. Mix designs containing more than 500 lb. aggregate or more than 5 gal. GemSeal® Rapid Set 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 (%)	53	---
Non-Volatile (%)	---	47
Ash (%)	50	30
Solubility in CS ₂ (%)	---	20
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. 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. New asphalt paving or repair patches should be allowed to cure for a minimum of 90 days at temperatures of 60°F or above before seal coating begins.

APPLICATION RATE:

0.11-0.13 Gal/Sq.Yd. (per coat)

Pavement Use	Application Rate gal/sq.yd.	Coats
Low Traffic	.11 - .12	2
Moderate Traffic	.11 - .12	2
High Traffic	.11 - .13	3



Guardian AE Asphalt Based Pavement Sealer Concentrate

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 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

Atlanta, GA 404-696-7660 404-691-9049 - Fax	Boston, MA 508-791-6366 508-791-6339 - Fax	Dallas, TX 214-333-4343 214-333-4399 - Fax	Greensboro, NC 336-854-8200 336-854-8202 - Fax	Tampa, FL 813-630-1695 813-630-1660 - Fax
Baltimore, MD 410-238-3413 410-238-3414 - Fax	Chicago, IL 847-678-6220 847-678-2652 - Fax	Detroit, MI 734-753-4413 734-753-9033 - Fax	Memphis, TN 901-775-2585 901-755-2590 - Fax	



Corporate Headquarters:
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LIMITED 1 YEAR PRODUCT WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES.

This Warranty constitutes the sole warranty given by Bonsal American in connection with this product, and Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American.