



## Technical Data

# Black Diamond Pavement Sealer Concentrate

REV 7/24

### DESCRIPTION:

GemSeal Black Diamond Concentrate is a premium petroleum-based emulsion pavement sealer, designed for application to pavement surfaces. GemSeal® Black Diamond 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. GemSeal Black Diamond extends the service life and enhances the appearance to provide a cost effective preventive maintenance coating of asphalt surfaces.

### FEATURES:

- Formulated specifically to protect all asphalt surfaces including commercial and residential parking areas and driveways.
- Alternative to both refined tar and asphalt base sealers.
- 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.
- Manufactured in a regulated continuous process for consistent emulsion particle size and distribution.
- Resists gasoline and oil penetration.

### PHYSICAL PROPERTIES:

Property	Max.	Min.
Water (%)	53	48
Non-Volatile (%)	52	47
Ash (%)	39	35
Sp. Gr. @ 77°	1.29	1.19

### SPECIFICATIONS:

Meets the following standards listed below:

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

GemSeal Black Diamond does not contain refined coal tar but does meet the performance standards listed in:

- ASTM D 5727

- ASTM D490
- ASTM D3423
- FAA P-625; P-627; and P-630

### MIX DESIGNS:

Black Diamond 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.

Black Diamond (GAL)	Water (GAL)	Graded Aggregate <sup>1</sup> (LB)	Latex Polymer <sup>2</sup> (GAL)
100	30-35	200-300 <sup>4</sup>	1-2
100	30-40	200-400 <sup>4</sup>	2-3

\*Note: sub-tropical regions may require 10% more water

- 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 Polymer** - Field proven in mix designs for best performance with GemSeal Black Diamond should include the use of GemSeal Boost Pro, GemSeal Rapid Set or GemSeal GuardFlex.
- 3. Mix designs** containing in excess of 40 gal. water per 100 gal. Black Diamond are not recommended, as curing and wear can be affected.
- 4. USE ONLY GEMSEAL** polymer fortifiers specifically designed for Black Diamond. DO NOT USE other additives. Other additives are not chemically compatible with GemSeal Black Diamond and will degrade the emulsion.

### APPLICATION RATE:

0.10-0.15 Gal/Sq.Yd. (per coat)

Use	Application Rate Gal/Sq.Yd.	Coats
Low Traffic	0.10-0.15	2
Medium Traffic	0.12-0.15	2
High Traffic	0.12-0.15	3

Fueling or truck maintenance areas may require an additional lightly sanded coat.

### 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 Multi-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 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



## Technical Data

# Black Diamond Pavement Sealer Concentrate

REV 7/24

oil rings when 1 gallon of clean water is poured onto the surface.

### APPLICATION:

GemSeal Black Diamond 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 Black Diamond 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.

**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:

Black Diamond 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:

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.