



Technical Data

Black Diamond XL Heavy Duty Pavement Sealer

REV 7/24

DESCRIPTION:

GemSeal Black Diamond XL is a premium heavy-duty, superior performance, polymer-modified petroleum-based emulsion pavement sealer, containing a high molecular weight polymer that has been cross-linked with the base to enhance durability, adhesion, elastic, and wear resistance. GemSeal Black Diamond XL 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 XL helps extend the service life and enhances the appearance to provide a cost effective preventive maintenance coating of asphalt surfaces.

FEATURES:

- The base binder has been cross-linked with a high molecular weight polymer compound 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.
- Alternative to both coal 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, adhesion, and flexibility for long-term durability.
- Manufactured in a regulated continuous colloid mill process for consistent emulsion particle size and distribution.

PHYSICAL PROPERTIES:

| Property | Max. | Min. |
|--------------------------------|------|------|
| Water (%) | 62 | - |
| Non-Volatile (%) | - | 38 |
| Ash (%) | 39 | 37 |
| Sp. Gr. @ 77° | 1.20 | 1.08 |
| Polymer to base Ratio (Vol. %) | - | 5 |

MIX DESIGNS:

GemSeal Black Diamond XL is a ready-to-use design to be blended with mineral aggregate and potable water (if needed) in proportions per the mix designs described in the table:

| Black Diamond (GAL) | Water ² (GAL) | Graded Aggregate ¹ (LB) |
|---------------------|--------------------------|------------------------------------|
| 100 | 0-10 | 200-400 |

- 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.
- 2. Additional water** need only be added when using aggregate in the final coat mix design.
- 3. GemSeal® Black Diamond XL** is produced from a cross-linked polymer modified petroleum base, and requires NO additional additives except graded aggregate or water. Use of any other additives is strongly discouraged as it may cause compatibility issues and damage performance, and will void Limited 1-Year Product Warranty.

APPLICATION RATE:

0.11 - 0.15 gal / yd² [60 - 82 ft²/gal] (per coat)

| Use | Application Rate Gal/Sq.Yd. | ft ² /gal | Coats |
|----------------|-----------------------------|----------------------|-------|
| Low Traffic | 0.11-0.15 | 60-82 | 2 |
| Medium Traffic | 0.12-0.15 | 60-75 | 2 |
| High Traffic | 0.12-0.15 | 60-75 | 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 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. New asphalt paving or repair patches should be allowed to cure a minimum of 90 days at temperatures of 60°F or above before seal coating begins.

APPLICATION:

GemSeal Black Diamond XL 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



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or rubber squeegee applicator designed for these products.

GemSeal Black Diamond XL 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.

ATTENTION:

Black Diamond XL 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 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.