



# Black Diamond RTU Pavement Sealer

**DESCRIPTION:**

GemSeal® Black Diamond RTU is a ready-to-use (RTU) premium petroleum-based emulsion pavement sealer, designed for application to pavement surfaces. GemSeal® Black Diamond RTU 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 RTU 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 with a colloid mill for consistent emulsion particle size and distribution.
- Resists gasoline and oil penetration.

**DESCRIPTION:**

Property	Max.	Min.
Water (%)	63	61
Non-Volatile (%)	39	37
Ash (%)	39	35
Sp. Gr. @ 77°	1.16	1.10

**MIX DESIGNS:**

GemSeal® Black Diamond RTU is a ready-to-use (RTU) sealer which only needs mineral aggregate in proportions according to the mix designs described in the following table:

GemSeal® Black Diamond RTU 1	Graded Aggregate <sup>2</sup>
(GAL)	(LB)
100	100-400

1. No additional dilution water is required. Black Diamond RTU is ready to apply after the recommended aggregate filler is mixed in.
2. 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.
3. Latex Polymer - GemSeal® Black Diamond RTU 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.

**APPLICATION RATE (per coat):**

Pavement Use	Gal/Yd. <sup>2</sup>	Ft <sup>2</sup> /Gal	Coats
Low Traffic	0.10 – 0.15	60 – 90	1 - 2
Moderate 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*

**SPECIFICATIONS:**

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

STANDARD	PROPERTY
ASTM D5	Penetration of Bituminous Materials
ASTM D139	Float Test for Bituminous Materials
ASTM D217	Cone Penetration
ASTM D490	Standard Specification for Road Tar
ASTM D529	Carbon-Arc Accelerated Weathering
ASTM D2846	Scrub Resistance of Paint Coatings
ASTM D2939	Emulsified Bitumen Used as Protective Coatings
ASTM D3910	Wet Track Abrasion
ASTM D4072	Solubility in Toluene
ASTM D5727	Emulsified Refined Tar Coating
FAA P-625	Emulsion Seal Coat
FAA P-627	Rubberized Emulsion Seal Coat
FAA P-630	Emulsion without Additives, Slurry Seal Surface Treatment
FAA P-631	Emulsion with Additives, Slurry Seal Surface Treatment



## Black Diamond RTU Pavement Sealer

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

### **APPLICATION:**

GemSeal® Black Diamond RTU 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 RTU 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.

*Note: 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® Black Diamond RTU should be protected from freezing.

### **MANUFACTURING & CUSTOMER SERVICE:**

**Call (866) 264-8273 to find the nearest GemSeal location to purchase Black Diamond RTU Pavement Sealer Concentrate.**

GemSeal Pavement Products  
Corporate Headquarters:  
3700 Arco Corporate Drive, Suite 425  
Charlotte, NC 28273

GemSeal Pavement Products warrants that for a period of one (1) year from date of purchase this product shall be free from manufacturing defects and shall meet or exceed performance standards listed in the technical data sheet for the product at the time of sale, if used as directed and within the stated shelf life. This Limited Warranty applies only if the product is stored, used, and applied over a properly prepared substrate in strict accordance with applicable specifications and instructions issued by GemSeal Pavement Products. The Limited Warranty will not apply if the product is altered, modified, or misused after it has left the control of GemSeal Pavement Products. GemSeal Pavement Products will not be responsible for defects caused by factors beyond its control, including but not limited to workmanship, application equipment, weather, acts of God, structural failure, condition or movement of substrate, improper additives, poor drainage, ponded water, improper maintenance, damage from snow removal equipment, and normal wear and tear. GemSeal Pavement Products does not warrant that the product or any method of use or application would be suitable for any particular site conditions. All warranty claims must be submitted in writing, with proof of purchase, to the following address: 3700 Arco Corporate Drive, Suite 425, Charlotte, NC 28273. Unused portions of product must be returned upon request. Replacement of defective product or, at GemSeal Pavement Products' option, refund of the purchase price of defective product shall be the buyer's sole remedy under this Limited Warranty. In no event shall GemSeal Pavement Products be liable for any damages in excess of the purchase price of the defective product. This Limited Warranty does not cover labor costs for product application, replacement, or repair. GEMSEAL PAVEMENT PRODUCTS SHALL IN NO EVENT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOST SALES OR PROFITS, BUSINESS INTERRUPTION, DELAYS, PHYSICAL DAMAGE TO OTHER MATERIALS OR PROPERTY, OR LOSS OF USE OF PROPERTY. THIS LIMITED WARRANTY IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. GEMSEAL PAVEMENT PRODUCTS EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No modification or extension of this Limited Warranty shall be valid unless given in writing and signed by an authorized officer of GemSeal Pavement Products. Sales personnel and product distributors are not authorized to modify or extend this Limited Warranty.