



# FedSpec Pavement Sealer Concentrate

**DESCRIPTION:**

GemSeal® FedSpec Concentrate is a premium refined tar emulsion pavement sealer, designed for application to asphalt pavement surfaces. GemSeal® FedSpec extends the service life and enhances the appearance to provide a cost effective preventive maintenance coating.

**FEATURES:**

- Formulated specifically to protect all asphalt surfaces including commercial and residential parking areas and driveways
- Exhibits outstanding wear resistance
- 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
- Manufactured in a regulated continuous process for consistent emulsion particle size and distribution
- Resists gasoline and oil penetration
- Colloid milled for superior wearability and consistency

**DESCRIPTION:**

Property	Max.	Min.
Water (%)	53	---
Non-Volatile (%)	---	47
Ash (%)	40	30
Solubility in CS <sub>2</sub> (%)	---	20
Sp. Gr. @ 77°	1.29	1.20

**SPECIFICATIONS:**

Meets or exceeds requirements for:

**ASTM D 5727**

Emulsified Refined Tar (Mineral Colloid Type)  
{replaces Federal Specification R-P-355e}

**ASTM D 6945**

Emulsified Refined Tar (Commercial Grade), Type I and Type II

**ASTM D 3320**

Emulsified Refined Tar Pitch (Mineral Colloid Type)

**FAA Engineering Brief No. 46**

Item P-625 and No. 46A, Item P-627 - Refined Tar Pitch Emulsion Seal Coat

**MIX DESIGNS:**

GemSeal® FedSpec 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® FedSpec	Water	Graded Aggregate <sup>1</sup>	Latex <sup>2</sup> Polymer
(GAL)	(GAL)	(LB)	(GAL)
100	30-35	200-300 <sup>4</sup>	1-2
100	30-40	200-400 <sup>4</sup>	2-3
100	35-45 <sup>3</sup>	200-500 <sup>4</sup>	3-5

\*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® FedSpec should include the use of GemSeal® Ultra 3 Latex, GemSeal® Rapid Set or GemSeal® AQS 3.
3. Mix designs containing in excess of 50 gal. water per 100 gal. FedSpec are not recommended, as curing and wear can be affected.
4. Mix designs containing more than 500 lb. aggregate or more than 5 gal. latex per 100 gal. GemSeal® FedSpec is not recommended.
5. USE ONLY GEMSEAL polymer fortifiers specifically designed for FedSpec. DO NOT USE other additives. Other additives are not chemically compatible with GemSeal® FedSpec and will degrade the emulsion.

**APPLICATION RATE:**

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

Pavement Use	Application Rate gal/sq.yd.	Coats
Low Traffic	.10 - .15	2
Moderate Traffic	.12 - .15	2
High Traffic	.12 - .15	3

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



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### 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 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® FedSpec 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® FedSpec 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:

GemSeal® FedSpec should be protected from freezing.

### CAUTION:

Contains coal tar, a skin irritant. 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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