

Rosphalt® SG

Rosphalt® SG is a concentrated thermoplastic polymeric asphalt additive supplied to batch or drum plants in a dry powder form. When added at twenty-four (24) pounds per finished ton of asphalt mix (in a job mix formulation design with target air voids of 1% to 1.5%), Rosphalt® SG provides a waterproofing wear- course that is highly resistant to rutting and shoving.

Common applications are new and replacement overlays on concrete, post tension box girder, steel grid, wood and other bridge decks that require corrosion protection and a high-performance, long-lasting wearing course. Additional applications include road areas requiring high performance, rut and shove resistant pavements such as high traffic intersections, entrance and exit ramps and toll booths.

FEATURES	BENEFITS
Integrated waterproofing & wearing course	One step installation
Uses standard paving equipment	No specialized equipment required
Lifespan of 3x times traditional HMA	Reduced life cycle costs
Rapid return to service	Ideal for high traffic and elevated structures
Dry mix additive	Easily purchased and transported
Rut & Shove Resistant	Longer Lasting Pavement
Fuel Resistant (FAA P-401)	Longer service life

ADVANTAGES

Easy Installation: Use of standard paving equipment and one-step integral waterproofing wearing course allows for rapid installation. Providing labor savings and quicker return to service when compared to competitive technology

Rapid Return to Service: Rosphalt® overlays can be returned to service in as quickly as 1 hour (when pavement cools to 140°F).

Life Cycle Costs: Based on beam fatigue test data, Rosphalt® SG mixtures have a typical life span of 3 times traditional PG 64-22 polymer modified asphalt concrete pavements. The extended service life reduces the life cycle costs when using Rosphalt® SG mixtures, creating an advantage when compared to alternate technologies.

Maintenance Free: Stored in super sacs or bags on pallets, eliminates maintenance on storage tanks, piping and secondary containment areas.

Project Size: Prepackaged, no minimum order quantities. Ideal for all project sizes.

Rut and Shove Resistance: Based on independent laboratory testing, Rosphalt® SG substantially out-performs traditional PG 64-22 hot-mix asphalt

INDEPENDENT TEST DATA OF PG64-22 WITH ROSPHALT® SG		
Properties	Test Method	Result
Color		Black
Shelf Life		1 Year
Performance Grade	AASHTO M320	PG 82-22
PG Binder Classification using MSCR	AASHTO M322	PG 76S-22
Hydraulic Conductivity*	ASTM D5084	Impermeable: 2.2 x 10 ⁻¹¹
IDEAL-CT	ASTM D8225 -19	90
Asphalt Pavement Analyzer	AASHTO T340	<5mm per Rut Depth
4 Point Bending Beam @ 750 µε	AASHTO T321	>1,000,000 cycles

Application

- Nosing material in expansion joints
- Rut & shove resistance pavement

Locations

- Bridge decks & Approaches
- Toll Booth Areas
- Parking Garages
- High Traffic Intersections

Substrate

- Concrete
- Asphalt
- Steel
- Composite
- Wood

LIMITATIONS

- Minimum installation surface and substrate temperature of 40°F (Radiant heaters on the pavers can be used to operate in lower temperatures. Contact Chase for additional information.)
- For additional product limitations, reference the most current version of the “Rosphalt® SG Installation Guidelines”.

MANUFACTURING AND INSTALLATION INSTRUCTIONS

The Rosphalt® SG additive is blended in the batch or drum plant with the aggregate prior to the addition of the liquid asphalt binder. In batch plants, the additive is added and blended with the aggregate for 10 seconds. Then the liquid asphalt is added and blended for an additional 70 seconds minimum for a total batch blending time of 80 seconds. Rosphalt® mixtures must be transported in tarped trucks to minimize heat loss during transit to the job site.

Please see the most current version of the “Rosphalt® SG Installation Guidelines” for detailed manufacturing, quality assurance and installation instructions.

ESTIMATING QUANTITY

Asphalt mixes containing the Rosphalt® additives typically weight approximately 150 lbs. per cubic foot but will vary depending on the job mix formula characteristics. This equates to approximately 25 lbs. per square foot when compacted to a 2” depth resulting in a yield of 80 square feet per ton of asphalt.

AVAILABLE QUANTITIES:

- 24 lb. polyethylene bags
- Super Sacks (approx. 65 units)
- Bulk Tanker

STORAGE

DO NOT ALLOW PRODUCT TO FREEZE. Store in a dry area at temperatures between 50°F and 95°F (10°C - 35°C) in the original unopened containers.

CAUTION

The data contained herein reflects internal testing conducted by the manufacturer and by third parties who are responsible for the accuracy of the information. This document is not to be construed as a specification or specific application process. Chase Corporation assumes no liability outside specific limits specified herein.

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