

ROSPHALT® FR

ROSPHALT® FR is a concentrated thermoplastic polymeric dry mix additive that when combined with standard asphalt mix designs creates a rut and shove resistant high performance pavement.

ROYSTON® ASPHALT MIX MODIFIER

PRODUCT DESCRIPTION:

Rospalt FR is a concentrated polymeric asphalt additive supplied to batch or drum plants in a dry powder form. When added at thirty pounds (30 lbs) per ton of asphalt in a job mix formulation, Rospalt FR provides a fuel resistant wearing course that is highly resistant to rutting and shoving resulting in increased longevity. Rospalt FR meets or exceeds performance perimeters outlined in FAA specification P401.

Common applications are airport runways/taxiways and enhanced road areas requiring high performance, rut and shove resistant pavements such as high traffic intersections, entrance and exit ramps, terminal turnarounds, toll booths, loading dock areas and motor speedways.

FEATURES	BENEFITS
Rut & shove resistant	Smoother riding surface
Uses standard paving equipment	No special equipment required
Resistant to reflective cracking	Greater longevity and reduced maintenance costs
Rapid return to service	Ideal for high traffic applications
Dry mix additive	Easily purchased and transported in any quantity.
Meets or exceeds FAA P401	Ideal for use as runway/taxiway wearing course.

USES:

Application

- Long lasting pavement in high traffic areas
- Pavements applied over a rubblized base
- Rut & shove resistance pavement

Location

- Airport Runways/Taxiways
- Loading dock areas
- Composite Bridge Decks & Approaches
- Tunnels
- Toll Booth Areas
- Parking Garages
- High Traffic Intersections
- Raceways

Substrate

- Concrete
- Asphalt
- Steel
- Composite

ADVANTAGES

• Easy Installation:

Use standard paving equipment allows for rapid installation. Providing labor savings and quicker return to service when compared to competitive technology.

INDEPENDENT TEST DATA OF PG64-28 WITH ROSPHALT FR			
Properties	Test Method	Result	
Color		Black	
Shelf Life		1 Year	
Performance Grade	AASHTO MP1	PG 88-28	
Softening Point	Ring & Ball	200.3°F (93.5°C)	
Fuel Resistance	FAA P401 Addendum #1	1.02	
Rut Resistance	WPI ¹	3.6mm @ 80,000 cycles	
Tensile Strength	ASTM D4123	110 psi (758 kPa)	
Tensile Strength Ratio	AASHTO T-283	92.6%	
Elastic Recovery	ASTM D6084	98%	
RTFOT Residue			
Mass Loss	AASHTO T240	.308%	
Dynamic Shear	AASHTO T315	Temp. 64°C	Force 14.3 kPa
		70°C	8.3 kPa
		76°C	5.3 kPa
		82°C	3.5 kPa
		88°C	2.68 kPa
PAV Residue	R 28	20 Hrs, 300 psi, 100°C	
Dynamic Shear	AASHTO T315	Temp 31°C	Force 831 kPa
		28°C	1176 kPa
		25°C	1649 kPa
		22°C	2327 kPa
Creep Stiffness	AASHTO TP3	79 MPa @12°C .337 m value @12°C	
Stiffness	AASHTO TP3	159 MPa @18°C .306 m value @18°C	

¹Worcester Polytechnic Institute (WPI) used tires pressurized to 100 psi (690 kPa) bearing a load of 607 lb (2.7 kN) in a water bath of 140°F (60°C) to determine rut resistance. 80,000 loads were applied to the samples.

REPRESENTED BY:



CANADIAN CONSTRUCTION PRODUCTS

604-888-7171

CCPCANADA.COM

WARRANTY

Manufacturer WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. Manufacturer makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling. For further Technical or Application Information, contact Chase Construction Products

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- **Rapid Return to Service:**
Rosphalt is returned to service in as little as 1 hour (Pavement cools to 140°F (60°C))
- **Rut & Shove Resistance:**
Based on independent lab testing, Rosphalt FR exhibits significantly less rutting than PG64-22.

MANUFACTURING AND INSTALLATION INSTRUCTIONS:

Rosphalt FR is blended in the batch or drum plant with the aggregate prior to the addition of the liquid asphalt binder. The liquid asphalt binder is added and the materials are mixed for a minimum of 70 seconds. Rosphalt is transported in tarped trucks.

Please see the "Rosphalt FR Guidelines for Contractors" for detailed manufacturing, quality assurance and installation instructions.

ESTIMATING QUANTITY:

Asphalt containing Rosphalt FR typically weighs 150 lbs per cubic foot but varies per job mix formulation. This equates to approximately 25 lbs per square foot when compacted to a 2" depth resulting in a yield of 80 square feet per unit of Rosphalt FR.

LIMITATIONS:

- Minimum installation surface & 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 "Rosphalt FR Guidelines for Contractors."

AVAILABILITY:

Kit Size:

- 30lbs (2 x 15 lb polyethylene bags)
- Bulk Tanker

Colors: Black

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.

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