

SYLVAROAD™ RP1000 Performance Additive

PRODUCT DATA SHEET

SYLVAROAD RP1000 Performance Additive is a liquid additive which mobilizes the aged binder of reclaimed asphalt (RA) pavement used in asphalt paving mixes. This improves the flexibility which enhances crack resistance, allowing higher amounts of RA in an asphalt mixture. Increasing RA content improves rutting resistance while reducing virgin material consumption. SYLVAROAD RP1000 enables a step change in the amount of RA used in the mix for all asphalt road layers without sacrificing ease of manufacturing or of application.

FEATURES

- High flashpoint >280°C, non-volatile and has no known risk at elevated process temperatures, allowing addition directly on the RA before the black drum
- Thermal and oxidative stability for consistent performance
- Restores flexibility of aged material giving cracking resistance
- Rutting resistance due to increased RA content
- Improves water sensitivity compared to untreated RA
- Allows good workability at increased RA content
- Produced from a purified pine feedstock and formulated to a controlled specification
- Based on a renewable, non-food, non-animal raw material

POTENTIAL APPLICATIONS

- Hot, Warm and Cold Mix Asphalt

SALES SPECIFICATIONS

Property	Test Method* (Kraton method)	Specification
Color, Gardner, neat	ASTM D6166 (AQCM 002)	Max. 8
Acid value (mg KOH/g)	ASTM D465 (AQCM 001)	Max. 15
Kinematic viscosity, Cannon-Fenske at 40 °C (cSt)	ASTM D445 (AQCM 111)	37 – 47

*Kraton internal methods are based on referenced standard method. Guidance is available upon request.

TYPICAL VALUES

Property	Test Method* (Kraton method)	Typical Value	
Flashpoint (°C)	ASTM D92 (AQCM 007)	>280	
Appearance	Internal method (AQCM 040)	Clear and bright	
Kinematic viscosity, Cannon-Fenske (cSt)	ASTM D445 (AQCM 111)	-20°C	1600
		0°C	350
		20°C	100
		40°C	40
		60°C	23
		100°C	10

*Kraton internal methods are based on referenced standard method. Guidance is available upon request.

SOLUBILITY	SYLVAROAD RP1000 Performance Additive is soluble in commonly available grades of bitumen. Compatible with solvents like aromatics, ketones and alcohols.
COMPATIBILITY	SYLVAROAD RP1000 Performance Additive is compatible with common additives such as adhesion promoters and warm mix additives.
PACKAGING	SYLVAROAD RP1000 Performance Additive is delivered in Drums, IBC or liquid bulk.
STORAGE RECOMMENDATION	Minimize exposure to excessively high or low temperatures and during storage. If material is stored below 10°C material should be warmed and agitated before use. Prevent storage in direct sunlight.

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