

RS-2 Product Data Sheet



Description and Physical Properties

RS-2 is a rapid setting, anionic water-based emulsified asphalt. It is supplied in bulk.

- Boiling Point (F): 212°F
- Specific Gravity (H₂O=1): 1.01
- Percent Volatile: 0
- Solubility In Water: Soluble
- Appearance And Odor: Brown Liquid, Faint Petroleum Odor
- Flammability: Non-flammable. In water-based state

Recommended Use

RS-2 emulsified asphalt is designed for use as a bituminous binder for chip seals. It should be applied with well-calibrated distributors. The distributor nozzles and spray bar should be sized and set to deliver the desired shot rate. The shot rate should be determined by a laboratory chip seal design with the project aggregate and the conditions of the existing pavement. The air and pavement temperatures should be sufficiently high to allow the emulsion to fully cure. Seal coats and surface treatment should be placed when the air temperature is above 50°F and rising.

Specifications Conforms to ASTM D977 Table 1 Specifications:

Property	Test Procedure	Min	Max
Viscosity, Saybolt Furol, 122°F, SFS	ASTM D7496	75	400
Sieve test, %	ASTM D6933	–	0.1
Storage stability, 1 day, % ^A	ASTM D6930	–	1
Distillation test:	ASTM D6997		
Residue by distillation, % by wt.		63	–
Tests on residue from distillation:			
Penetration, 77°F, 100 g, 5 sec.	ASTM D5	100	200
Ductility, 77°F, 5 cm/min., cm	ASTM D113	40	–
Solubility in trichloroethylene or n-propyl bromide, %	ASTM D2042/D7553	97.5	–

^AThis test requirement on representative samples is waived if successful application of the material has been achieved in the field.

Storage and Handling

The water-based emulsion should not be exposed to overheating. The emulsion is a chemically stabilized system, so care should be taken not to upset the chemical balance with contamination by chemicals, over-exposure to air, or adverse mechanical or thermal conditions. Before being filled, tanks and trucks should be examined for possible contaminants. Recommended use and storage temperatures are given in the table.

Recommended Temperatures	Min	Max
Storage	120°F	180°F
Application	120°F	160°F

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