

Emulsified Asphalt Prime

Emulsified Asphalt Prime (or EAP) is a cationic emulsion used for priming and tacking. The material is applied through a distributor at a rate of .10 to .30 of a gallon per square yard depending on the surface to be treated. A small test section should be done prior to full production to determine proper application rate unless otherwise specified.

Physical Properties

- Boiling Point – Approximately 100°C (212° F)
- Percent Volatiles – None
- Appearance – Brown Liquid
- Flammability – Non-Flammable (liquid)
- Weight Per Gallon – 8.4 lbs.
- Solubility in Water – Dispersible
- Odor – Mild Petroleum Odor

Specifications for Emulsified Asphalt Prime

The specification conforms to AASHTO M208, ASTM D2397 and North Carolina DOT.

Property		Test Procedure (AASHTO)	Specification	
			Min	Max
Viscosity, Saybolt-Furol, 25°C (77°F), sec		T59, T72	20	100
Sieve Test, %		T59	—	0.1
Particle Charge		—	Positive	
Distillation Test	Residue by distillation, % by weight	T59	57	—
	Oil Distillate, % by volume		—	3
Tests on Residue from Distillation	Penetration, 25°C (77°F), 100 g, 5 sec	T49, T59	40	90
	Ductility, 25°C (77°F), 5 cm/min, cm	T51, T59	40	—

Handling

Protect the emulsion from freezing.
 Avoid overheating the emulsion.
 Avoid excessive pumping with high shear pumps, especially if the emulsion is cool.

Storage and Application

Grade	Recommended Maximum Storage Temperature, °F	Application Temperatures (°F)	
		Recommended Range	Maximum Allowable
EAP	140	50-130	175

Transport

Regulatory Information	UN Number	Proper Shipping Name	Class	PG	Label
USDOT					Not Regulated



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