

AE-P Product Data Sheet



Description and Physical Properties

AE-P is an anionic water in oil asphalt emulsion prime designed for spraying on prepared granular bases. It is available in bulk. Physical Properties:

- C.A.S. Number: 8052-42-4
- Boiling Point (F): 2120f
- Specific Gravity (H2O=1): 0.97-1.05
- Percent Volatile: Approximately 10% @680°f Distillation
- Vapor Density (Air=1): Less Than 5mmhg @ 20°c
- Evaporative Rate (Ee=1): Less Than 0.1%
- Solubility In Water: Insoluble
- Appearance And Odor: Black Liquid, Petroleum Odor
- Flash Point (Pensky Martin Closed Cup): 200°F

Recommended Use

AE-P should be applied with well-calibrated distributors at a shot rate selected for the pavement to be treated. The distributor nozzles and spray bar should be sized and set to deliver the desired shot rate. The air and pavement temperatures should be sufficiently high to allow the emulsion to fully cure, and there should be no imminent threat of rain.

Specifications Conforms to Texas Department of Transportation Specifications-Item 300.2:

Property	Test Procedure	Min	Max
Viscosity, Saybolt Furol, 122°F, sec.	T72	15	150
Sieve test, %	T59	-	0.1
Demulsibility, 35 ml of 0.10 N CaCl ₂ , %	T59	-	70
Storage stability, 1 day, %	T59	-	1
Asphalt emulsion distillation to 500°F followed by Cutback asphalt distillation of residue to 680°F:	T59 & T78		
Residue after both distillations, % by wt.		40	-
Total oil distillate from both distillations, % by volume of emulsion		25	40
Tests on residue after all distillation(s):			
Solubility in trichloroethylene, %	T44	97.5	-
Float test, 122°F, sec.	T50	50	200

Storage and Handling

AE-P is not soluble in water and should not be diluted by water. Because of its relatively low flash point (200°F), it should not be exposed to open flames. 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	60°F	160°F
Application	60°F	180°F

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