

# EAP&T Product Data Sheet

## Description and Physical Properties

EAP&T (Emulsified Asphalt Prime and Tack) is water-based asphalt emulsion used for priming, tacking and dust control. It is meant to be diluted with water prior to application. It penetrates well in most road base materials. It is supplied in bulk. Physical properties:

- C.A.S. Number: 8052-42-4
- Boiling Point (F): 212°F
- Specific Gravity (H2O=1): 0.96-1.05
- Vapor Pressure: <1mm Hg @ 77 °F
- Vapor Density (Air=1): >1.0
- Solubility In Water: Completely
- Appearance And Odor: Brown Liquid, Asphalt Odor

## Recommended Use

EAP&T should be diluted 3 parts water to 1 part emulsion before use, and applied at a rate of 0.20 – 0.33 gallons per square yard, depending upon the surface to be treated. 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 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
Sieve test, %	T59	-	0.1
Miscibility <sup>1</sup>	T59	Pass	
Storage stability, 1 day, %	T59	-	1
Particle size, % by volume < 2.5 µm	Tex-238-F <sup>2</sup>	90	-
Residue by distillation, % by wt.	T59	60	-
Tests on residue after distillation:			
Viscosity, 140°F, poise	T202	800	-

<sup>1</sup> Exception to T 59: In dilution, use 350 ml of distilled or deionized water and a 1,000-ml beaker.

<sup>2</sup> Use Tex-238-F, beginning at "Particle Size Analysis by Laser Diffraction," with distilled or deionized water as a medium and no dispersant, or use another approved method.

## Storage and Handling

The water-based emulsion should not be exposed to freezing temperatures or 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	50°F	140°F
Application	50°F	130°F

## Martin Asphalt Quality

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