

Missouri Department of Transportation Specifications

1015.20.5.2 Asphalt Emulsion for Micro-Surfacing. Bituminous material for micro-surfacing shall be a polymer modified asphalt emulsion, grade CSS-1h, in accordance with the following table. The bituminous material shall show no separation after mixing. A minimum of 3.0 percent polymer content, by mass, of an approved polymer shall be milled into the asphalt emulsion at the time of manufacture of the emulsion. The emulsion shall be sampled in accordance with AASHTO T 40.

Micro-Surfacing Emulsion (MSE-1)			
	Min.	Max.	Test Method
Viscosity, Saybolt Furol at 77 F, s	20	100	AASHTO T 59
Storage Stability Test, 24 hour, %	----	1 ^a	AASHTO T 59
Particle Charge Test ^b Positive			AASHTO T 59
Sieve test, %		0.50	AASHTO T 59
Residue, %	62		AASHTO T 59
Tests on Residue from Distillation:	Min.	Max.	Test Method
Penetration, 77 F, 100 g, 5 s,	40	90	AASHTO T 49
Ductility, 25 C, 5cm/min, cm,	40	----	AASHTO T 51
Solubility in Trichloroethylene, %	97.50	----	AASHTOT 44

^aThe storage stability test may be waived provided the asphalt emulsion storage tank at the project site has adequate provisions for circulating the entire contents of the tank, and provided satisfactory field results are obtained.

^bIf the particle charge test is inconclusive, material having a maximum pH value of 6.7 will be acceptable.