

IDOT RSP Specification

Note 3. The supplier shall certify that the rapid setting polymer modified emulsion meets the following requirements, prior to the start of mix production.

Tests on Emulsion	Method	Min.	Max.
Viscosity, Saybolt Furol @ 77 °F (25 °C), SFS	AASHTO T59	20	100
Storage Stability Test, 24 hr, % ^{1/}	AASHTO T59	--	1
Sieve Test, retained on #20 (850 µm) sieve, %	AASHTO T59	--	0.1
Residue by Distillation, % ^{2/}	AASHTO T59	63	
Oil Distillate by Volume, %	AASHTO T59	--	2
Demulsibility, % 35 ml, 0.02 N CaCl ₂ <u>or</u> 35 ml, 0.8% dioctyl sodium sulfosuccinate	AASHTO T59	60	--

Tests on Residue From Distillation	Method	Min.	Max.
Penetration @ 77 °F (25 °C), 100 g, 5 sec, dmm	AASHTO T49	60	150
Elastic Recovery @ 39 °F (4 °C), %	AASHTO T301	60	--

1/ After standing undisturbed for 24 hours, the surface shall show no white, milky colored substance, but shall be a smooth homogeneous color throughout. The material may be released prior to completion of the test based on approval of the Department.

2/ AASHTO T59 with modifications to include a 375 °F ± 10 °F (190 °C ± 5 °C) maximum temperature to be held for a period of 15 minutes.