

State: New Hampshire	Specification: Section 702
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New Hampshire		Table 1: Requirements for Anionic Emulsified Asphalts					
Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting			Medium-Setting		
		RS-1	RS-1h	RS-2	MS-4	MS-5	
EMULSIONS:							
Viscosity, Saybolt Furol seconds	25 °C (77 °F)	T 59	20-100	20-100	-	-	-
	50 °C (122 °F)		-	-	75-400	100-500	100-500
Settlement, 5 days, %			-	-	-	-	-
Storage Stability Test, 24 hours, %			1 max.	1 max.	1 max.	1 max.	1 max.
Demulsibility, 35 mL, 0.02 N CaCl ₂ , %			60 min.	60 min.	60 min.		
Sieve Test, %			0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.
Coating Ability and Water Resistance	Dry Aggregate		-	-	-	75+ (1,2,3)	75+ (1,2,3)
	After Spraying		-	-	-	75+ (1,2,3)	75+ (1,2,3)
	Wet Aggregate		-	-	-	75+ (1,2,3)	75+ (1,2,3)
	After Spraying		-	-	-	75+ (1,2,3)	75+ (1,2,3)
Residue, %			55 min.	55 min.	65 min.	65 min.	65 min.
Oil Distillate, volume of emulsion, %			-	-		1.0-7.0	3.0 max.
DISTILLATION RESIDUE:							
Penetration, 25 °C (77 °F), tenths of mm			T 49	90-150	40-90	90-150	250 min.
Ash Content, %		T 111	1 max.	1 max.	1 max.	-	-
Float Test at 60 °C (140 °F), seconds		T 50	-	-	-	50 min.	100 min.
NOTES:		<ol style="list-style-type: none"> Wet Coating: Weigh 100 ± 0.5 g of aggregate, 20 to 30 mesh (0.85 to 0.60 mm) standard Ottawa sand, into a 600 mL glass beaker and add soft tap water, approximately twice the volume of that of sand. Weigh into the beaker containing the sand and water 8 ± 0.2 g of the emulsion at room temperature and mix for two minutes with a stiff spatula. Cover the mixture with approximately twice its own volume of tap water and pour the water off without further mixing. Repeat this process. After the second rinse, at least 75% of the sand shall remain coated. Stripping: After evaluating the wet coating, place the mixture into a clear 600 mL glass beaker, cover the mixture with tap water, let stand for 12-16 hours, and examine. At least 75% of the sand shall remain coated. The coating and stripping tests may be waived when MS-5 Is used for sand sealing. 					



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Table 2: Requirements for High Float Emulsified Asphalts

Property	Test Method AASHTO (T), ASTM (D), or Other	Medium-Setting	
		HFMS-2	
EMULSIONS:			
Viscosity, Saybolt Furol seconds	T 59	25 °C (77 °F)	-
		50 °C (122 °F)	100 min. (1)
Settlement, 5 days, %		-	
Storage Stability Test, 24 hours, %		1 max.	
Sieve Test, %		0.10 max.	
Demulsibility, %		-	
Cement Mixing Test, %		-	
Coating Ability and Water Resistance		Dry Aggregate	Good
		After Spraying	Fair
		Wet Aggregate	Fair
		After Spraying	Fair
Residue, %		65 min.	
Oil Distillate, volume of emulsion, %	-		
DISTILLATION RESIDUE:			
Penetration, 25 °C (77 °F), tenths of mm	T 49	90-250	
Ductility, 25 °C (77 °F), cm	T 51	40 min	
Ash Content, %	T 111	1 max.	
Float Test at 60 °C (140 °F), seconds	T 50	1200	
NOTES:	1. 50 min. when material is used for sealing.		



Table 3: Requirements for Cationic Emulsified Asphalts (1)

Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting		
		CRS-1	CRS-1h	
EMULSIONS:				
Viscosity, Saybolt Furol seconds	T 59	25 °C (77 °F)	-	-
		50 °C (122 °F)	20-100	20-100
Settlement, 5 days, %		-	-	
Storage Stability Test, 24 hours, %		1 max.	1 max.	
Sieve Test, %		0.10 max.	0.10 max.	
Demulsibility, Sodium dioctyl sulfosuccinate, %		40 min.	40 min.	
Particle Charge		Positive	Positive	
Coating Ability and Water Resistance		Dry Aggregate	-	-
		After Spraying		
		Wet Aggregate		
	After Spraying			
Residue, %	60 min.	60 min.		
Oil Distillate, volume of emulsion, %	3 max.	3 max.		
DISTILLATION RESIDUE:				
Penetration, 25 °C (77 °F), tenths of mm	T 49	90-150	40-90	
Ductility, 25 °C (77 °F), cm	T 51	40 min.	40 min.	
Ash Content, %	T 111	1 max.	1 max.	
NOTES:	1. Suggested spraying Temperature: 25-60 °C			

