Pag

SUPPLEMENTAL SPECIFICATION AMENDMENT TO SECTION 702-BITUMINOUS MATERIALS

The purpose of this Supplemental Specification is to adopt new AASHTO specifications for emulsions.

Amend Section 702 to read:

Fable 702-1 – Anionic Asphalt Emulsion

Test Method T59 T49 T1111 T50 T51 0.10 max see (e) (f) (g) 1.0 250 500 min 75% 100 150 100 65 0 Medium Setting max 0.10 1.0 7.0 500 see (e) (f) 75% min 001 1.0 65 250 50 0.10 max 1.0 250 1.0 HFMS-2 poog fair fair fair see (d) 200 min 100 65 90 40 max 0.10 1.0 400 150 min 75 65 40 9 90 Rapid-Setting 0.10 max 0.1 1.0 00 50 RS-1 min 20 55 9 90 max 0.10 1.0 001 1.0 90 55 20 09 40 40 Viscosity, Saybolt Furol at 50°C (122° F), s^a Viscosity, Saybolt Furol at 25°C (77° F), s^a Penetration, 25°C (77°F), 100 g, 5 s, 0.1 mm Demulsibility, 35 mL, 0.02 N CaCl₂, %^a Ductility, 25°C (77°F), 5 cm/min, cm Coating ability and water resistance ests on residue from distillation: Storage stability test, 24 h, %a,b ests on emulsified asphalt: Float test, 60°C (140°F), s Coating, dry aggregate Coating, after spraying Coating, wet aggregate Coating, after spraying % Oil distillate, Residue, % Ash content, % Sieve test, %a,b Distillation Grade

Table 702-2 -- Cationic Asphalt Emulsion

Туре	Rapid-Setting				
Grade	CRS-1h		CRS-1		
Tests on emulsified asphalt:	min	max	min	max	Test Method
Viscosity, Saybolt Furol at 50°C (122°F), s ^a	20	100	20	100	T59
Storage stability test, 24-h, %a,b		1		1	
Sodium dioctyl sulfosuccinate, %a	40		40		
Particle charge test	Positive		Positive		
Sieve test, % ^{a,b}		0.10		0.10	
Distillation:					
Oil Distillate by volume of emulsified asphalt, %		3		3	
Residue, %°	60		60		
Tests on residue from distillation:					
Penetration, 25°C (77°F), 100 g, 5 s, 0.1 mm	40	90	90	150	T49
Ductility, 25°C (77°F), 5 cm/min, cm	40		40		T51
Ash content, %		1		1	T111

Footnotes:

- a. This test requirement and associated specification limits are waived for emulsified asphalt products following dilution
- b. This test requirement on representative samples may be waived if successful application of the material has been achieved in the field.
- c. For emulsions that are diluted, the percent residue requirements must be adjusted accordingly.
- d. 50 + when material is used for sealing.
- e. 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 percent of the sand shall remain coated.
- f. <u>Stripping</u>: After evaluating the wet coating, place the mixture into a clear 600 mL glass beaker, cover the mixture with tap water, let stand for 1 to 16 hours, and examine. At least 75 percent of the sand shall remain coated.
- g. The coating and stripping tests may be waived when MS-5 is used for sand sealing.