

EMULSIFIED ASPHALT

****From St. Johnsbury-Guildhall NH SURF(32)**

- xx. DESCRIPTION. This work shall consist of furnishing and applying bituminous treatment when required on an approved surface.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 404 of the Standard Specifications.

- xx. MATERIALS. Emulsified asphalt shall be either a type RS-1h or CRS-1h meeting the following requirements:

TABLE 1

ANIONIC ASPHALT EMULSION FOR TACK COAT		
TYPE	RAPID SETTING	
GRADE	RS-1h	
Test Requirements	Min.	Max.
<u>Emulsion:</u>		
Viscosity, Saybolt Furol, 77°F (25°C), second	20	100
Viscosity, Saybolt Furol, 122°F (50°C), second	-	-
Storage Stability Test, 1 Day(Difference in % Residue)	-	1
Demulsibility, 35 ml, 0.02 N, CaCl ₂ , %	60	-
Cement Mixing Test, %	-	-
Sieve Test, %	-	0.10
Residue by Distillation, %	55	-
Oil Distillate, Volume Total Emulsion, %	-	2
<u>Residue from Distillation Test:</u>		
Penetration, 77°F (25°C), 100 g, 5 second	40	90
Ductility, 77°F (25°C), 5 cm/minute, cm	40	-
Solubility in trichloroethylene, %	97.5	-
Float Test, ⁽¹⁾ 140°F (60°C), second	-	-
<u>Suggested Temperature Range:</u>		
Mixing, °F	-	-
Spraying, °F	75	150

Notes:

1. Float Test AASHTO T 50, except that the residue from distillation shall be poured immediately into the float collar at 500°F (260°C).

TABLE 2

CATIONIC ASPHALT EMULSION FOR TACK COAT		
TYPE	RAPID SETTING	
GRADE	CRS-1h	
Test Requirements	Min.	Max.
<u>Emulsion:</u>		
Viscosity, Saybolt Furol, 77°F (25°C), second	20	100
Viscosity, Saybolt Furol, 122°F (50°C), second	-	-
Storage Stability Test, 1 Day (Difference in % Residue)	-	1
Classification Test	Passes	
Particle Charge Test	Positive	
Sieve Test, %	-	0.10
Cement Mixing Test, %	-	-
Residue by Distillation, %	60	-
Oil Distillate, Volume Total Emulsion, %	-	3
<u>Residue from Distillation Test:</u>		
Penetration, 77°F (25°C), 100 g, 5 second	40	90
Ductility, 77°F (25°C), 5 cm/minute, cm	40	-
Solubility in trichloroethylene, %	97.5	-
<u>Suggested Temperature Range:</u>		
Mixing, °F	-	-
Spraying, °F	75	140

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Emulsified Asphalt) to be measured for payment will be the number of kilograms [hundredweight (CWT)] used in the complete and accepted work.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Emulsified Asphalt) will be paid for at the Contract unit price per kilogram [hundredweight (CWT)] for the specified material applied. Payment will be full compensation for furnishing, transporting, and placing the material and for furnishing all materials, signs, traffic control, labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.635 Special Provision (Emulsified Asphalt) (RS-1H or CRS-1H)	Kilogram
900.683 Special Provision (Emulsified Asphalt) (RS-1H or CRS-1H)	CWT