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HFRS-P1/HFE-90-1S

SPECIFICATIONS FOR ANIONIC, HIGH-FLOAT POLYMER MODIFIED EMULSIONS

This specification has been designed to yield a set of distinguished characteristics for a polymer-modified emulsion. The binder is not conventional asphalt cement. Efforts have been taken to use as many recognized tests as possible, yet demonstrate the materials unique properties.

The asphalt must be polymerized prior to emulsification. The emulsion can be classified as a high-float, medium setting, anionic-type emulsion for seal coat.

PROPERTIES	MIN	MAX
Viscosity SFS @ 50°C	100	
Storage Stability, 1 day		1.0
Demulsibility, 0.02 N CaCL ₂ , 35 ml, %	30	
Sieve %		0.10
Residue by 204°C Distillation, %	65**	
Oil in distillate by volume, %		3.0

TESTS ON RESIDUE FROM DISTILLATION

Penetration @ 25°C, dmm	90	200
Float @ 60° C, sec	1200	
Force Ductility @ 4° C, 5cm/min	0.1*	
Elastic Recovery, 10° C	30*	
20 cm elongation standard mold, 5 minute relaxation, %		

* See attached procedure

** The Standard Distillation procedure shall be modified as follows: The temperature on the lower thermometer shall be brought slowly to 204° plus or minus 5° Celsius and maintained at this point for 20 minutes. Complete the total distillation in 60 plus or minus 15 minutes from the first application of heat.

2/10/2000

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