CQS-Ih Product Data Sheet

Description and Physical Properties

CQS-1h is a cationic emulsion for use with quick-setting slurry seals. A specially designed application machine mixes the emulsion, aggregate, water and additives and also places the resulting mixture. The Emulsion can also be used as a tack coat (either as is or diluted 50% with water) or fog seal (diluted 50% with water) and applied with a distributor.

Physical Properties

■ Boiling Point —Approximately 100°C (212°F)

■ Percent Volatiles—None

Appearance—Brown Liquid

■ Flammability—Non-flammable (liquid)

■ Weight Per Gallon—8.4 lbs

■ Solubility in Water—Dispersable

Odor—Mild Petroleum Odor

Specifications for CQS-1h

The specification conforms to AASHTO M208, ASTM D2397, the Virginia Department of Transportation, North Carolina DOT, South Carolina DOT, Tennessee DOT, West Virginia DOT and Maryland State Highway Administration.

Property		Test Procedure	Specification	
		(AASHTO)	Min	Max
Viscosity, Saybolt-Furol, 25°C (77°F), sec		T59, T72 20 100		100
Sieve Test, %		T59 — 0.1		0.1
Particle Charge		T59	Positive	
Slurry Seal Quick-	-Set Test	VTM 89 ¹	VTM 89 ¹ Pass A&B	
Distillation Test	Residue by distillation, % by weight	TEO	57	_
	Oil Distillate, % by volume	T59		3
Tests on Residue from Distillation	Penetration, 25°C (77°F), 100 g, 5 sec	T49, T59	40	90
	Ductility, 25°C (77°F), 5 cm/min, cm	T51, T49	40	_

¹VTM=Virginia Test Method

Handling

Protect the emulsion from freezing. Avoid overheating the emulsion.

Avoid excessive pumping with high shear pumps, especially if the emulsion is cool.

Storage and Application

Grade	Recommended Maximum	Application Temperatures (°F)		
	Storage Temperature, °F	Recommended Range	Maximum Allowable	
CQS-1h	140	50-130	175	

Transport

Regulator Information	Proper Shipping Name	Class	PG	Label		
USDOT	Not Regulated					

