

CQS-1hLM Product Data Sheet

Description and Physical Properties

CQS-1hLM 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-1hLM

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 (AASHTO)	Specification	
			Min	Max
Viscosity, Saybolt-Furol, 25°C (77°F), sec		T59, T72	20	100
Sieve Test, %		T59	—	0.1
Particle Charge		T59	Positive	
Slurry Seal Quick-Set Test		VTM 78 ¹	Pass A&B	
Residue Determination	Residue by distillation or evaporation, % by weight	T59 (350°Fmax)	62	—
	Oil Distillate, % by volume		—	3
Tests on Residue	Penetration, 25°C (77°F), 100 g, 5 sec	T49, T59	40	90
	Softening Point, R&B, °C (°F)	T53, T59	60 (140)	—

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

Transport

Regulatory Information	UN Number	Proper Shipping Name	Class	PG	Label
USDOT					Not Regulated



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