

### Description

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 and ASTM D2397.

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	
Residue Determination	By distillation or evaporation, % by weight	T59	62	—
Tests on Residue	Penetration, 25°C (77°F), 100 g, 5 sec	T49	40	90
	Softening Point, R&B, °C (°F)	T53	60 (140)	—

### 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				