

Description

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.

| 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 | Residue by distillation, % by weight | T59 | 62 | — |
| Tests on Residue From Distillation | Penetration, 25°C (77°F), 100 g, 5 sec | T49 | 40 | 90 |
| | Ductility, 25°C (77°F), 5 cm/min, cm | T51 | 40 | — |

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-1h | 140 | 50-130 | 175 |

Transport

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