



THE CHEMICAL DIVISION OF COLAS

CQA-1



CQA-1 is a quaternary ammonium salt designed for use as cationic emulsifier for slow setting and slurry seal emulsions and as retardant for micro surfacing.

CHARACTERISTICS	METHODS	SPECIFICATIONS	TYPICAL VALUES
Physical state at 20°C	Visual test	Liquid	-
Activity (%)		70	
Alkalinity index (mg HCl/g)	MOPCST PC-006	<10 mgHCl/g	5 mgHCl/g
Density at 20°C (g/cm ³)	CHEM 004	1.07 ± 0.05	-
Flash point, closed cup (°C)	EN 22719	>110	-
Viscosity at 25°C (mPa.s)	MOPCST PC-029	<1200	-

FORMULATION EXAMPLE

Application	Slow set bitumen emulsion	Slurry seal emulsion	Micro surfacing retardant
Bitumen type and dosage	60% paraffinic	60% naphthenic	
CQA-1 dosage	4 - 6Kg/T	8 - 12Kg/t	0.02 % in water
Aqueous phase pH	2.0 - 2.5	2.0 - 2.5	

STORAGE AND HANDLING CONDITIONS

CQA-1 must be protected from frost. Continuous cold temperature storage can lead to an increase in the viscosity of the CQA-1. If this occurs the CQA-1 should be heated and agitated thoroughly to insure a homogeneous mixture before use.

PACKING

Drum of 200Kg / IBC of 1000Kg