



THE CHEMICAL DIVISION OF COLAS

# CQA-1

## Product Information

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.

## Storage & Handling

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.

## Formulation Example

Application	Bitumen Type & Dosage	CQA-1 Dosage	Aqueous Phase pH
Slow set bitumen emulsion	60% paraffinic	4-6 kg/t	2.0-2.5
Slurry seal emulsion	60% naphthenic	8-12 kg/t	2.0-2.5
Micro surfacing retardant	-	0.02% in water	-

## Table of Parameters

Characteristics	Methods	Specification	Typical Values
Physical state at 20°C	Visual test	Liquid	-
Activity (%)	-	70	-
Alkalinity index (mgHCl/g)	MOPCST PC-006	<10	5
Density at 25°C (g/cm <sup>3</sup> )	CHEM 004	1.07 ± 0.05	-
Flash point, closed cup (°C)	EN 22719	>110	-
Viscosity at 25°C (mPa.s)	MOPCST PC-029	<1200	-

## Packing

Drum of 200kg / IBC of 1000kg