



THE CHEMICAL DIVISION OF COLAS

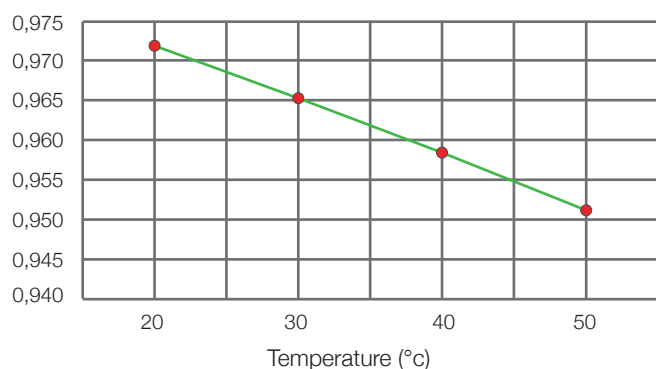
MDC



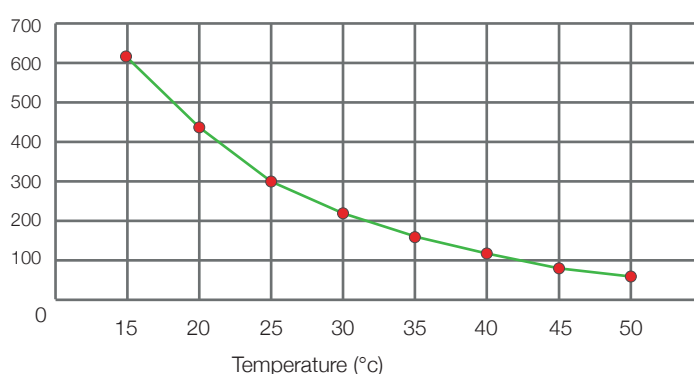
MDC is a special blend of fatty nitrogen compounds designed for emulsions used in cold mixes like microsurfacing and grave emulsion.

CHARACTERISTICS	METHODS	SPECIFICATIONS	TYPICAL VALUES
Physical state at 20°C	Visual test	Liquid	-
Alkalinity index (mg HCl/g)	MOPCST PC-006	> 215	240
Density at 20°C (g/cm ³)	CHEM 004	0,97 ± 0,05	-
Flash point, closed cup (°C)	EN 22719	>100	-
Viscosity at 25°C (mPa.s)	MOPCST PC-029	-	300
Cloud point	CHEM 003	-	<0°C

DENSITY MDC (g/cm³)



VISCOSITY MDC (mPa.s)



FORMULATION EXAMPLES (refer to CST Technical Note N°159)

Application	Micro surfacing	Grave emulsion
Bitumen type and dosage	60% naphthenic	60% paraffinic
MDC dosage	10-16 Kg/t	5-12 Kg/t
Salt dosage	1 Kg/t	1 Kg/t
Aqueous phase pH	2.0-2.5	2.0-2.5

STORAGE AND HANDLING CONDITIONS (refer to Chemoran guide)

MDC must be protected from exposure to water. When mixed with water, a chemical reaction can occur which leads to a reduction in some of the emulsifier's properties. Water will sink to the bottom of the emulsifier container and form a clouded viscous layer. The clear unaffected emulsifier should be carefully decanted off without disturbing this layer and used as soon as possible.

MDC must be protected from long-term exposure to atmospheric moisture. This takes place slowly on the emulsifier surface exposed to moist air. It is identified as a viscous skin which may lead to a reduction of product performance. Bulk storage tanks are more likely to experience this due to long storage periods and open vents. Smaller containers with small amounts of emulsifiers can be damaged on long storage especially if they are not fully sealed.

MDC must be protected from frost. Continued cold weather storage can lead to major increase in the viscosity and some precipitation may take place at temperatures below the cloud point. If this occurs MDC should be heated or agitated thoroughly to insure a homogeneous mixture before use.

PACKING

Drum of 200Kg / IBC of 1000Kg

Revision n°3 (20/01/2016)