



THE CHEMICAL DIVISION OF COLAS

TDC(R)

Product Information

TDC(R) is a fatty amidoamine designed for use in fast-breaking emulsion with low viscosity with both polymer bitumen and hard bitumen.

Storage & Handling (refer to Chemoran guide)

TDC(R) 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.

TDC(R) 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 clear skin which may lead to a reduction of product performance.

Formulation Example (refer to CST Technical Note N°129)

Application	Bitumen Type & Dosage	TDC(R) Dosage	Aqueous Phase pH
Surface dressing	69% SBS Modified	2.0 kg/t	2.5
Tack coat	65% 35/50	2.0 kg/t	2.5

Table of Parameters

Characteristics	Methods	Specification	Typical Values
Physical state at 20°C	Visual test	Liquid	-
Alkalinity index (mgHCl/g)	MOPCST PC-006	>80	93
Flash point, closed cup (°C)	EN 22719	>100	-
Cloud point	CHEM 003	-	<5°C

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.

TDC(R) 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 TDC(R) should be heated or agitated thoroughly to insure a homogeneous mixture before use.

Packing

Drum of 180kg / IBC of 900kg

Temp.	Density	Viscosity
°C	(g/cm ³)	(mPa.s)
10	0.909	270
20	0.903	130
30	0.896	70
40	0.889	50
50	0.882	40