

Dispersant KCM002L

1. Introduction

Dispersants can improve mixability of cement slurry and reduce slurry viscosity. This will reduce pumping frictions and lower the critical rate for turbulence flow.

Most dispersants achieve above objectives by separating solid particles and suspend them homogeneously in cement slurry.

Many dispersing agents in cement slurry are also able to help improve fluid loss properties of the slurry.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KCM002L	Brownish liquid	1.16-1.21	Soluble	>93	Eyes	None	7-9

3. Chemical Properties and Application

As described above KCM002L provides cement slurry placement in turbulent flow easily and at minimal pumping pressure due to lower frictions, especially in applications of smaller tubulars and viscous slurry designs. Unique chemical nature of KCM002L will disperse solid particles effectively and stabilize them homogeneously in cement slurries to prevent any settling problems and reduce free water content.

Liquid form of KCM002L provides operations with great flexibilities in offshore where spaces are limited and other areas where dry-blending facilities are not available.

KCM002L is also effective in fluid loss control if used together with most polymeric fluid loss control agents.

4. Treatment

KCM002L is generally used at concentrations from 0.025 to 0.5 gal/sack depending on the brands of cement and applications. Caution should be taken to “over-disperse” the slurry at higher KCM002L concentrations. Excess free water and particle settling will be observed if slurries are “over-dispersed”.

5. Packaging

This product is supplied in 5 gallons high density polyethylene (HDPE) drums or 55 gallons steel drums. Keep it away from extreme conditions such as places near flames or direct sunlight.