

Silica Fume KCM033

1. Introduction

Light weight extender KCM033 is one of the light weight extenders conventionally used for preparing low density cement slurries. Addition of KCM033 will reduce the amount of cement and increase the amount of water required in cement slurry so that slurry density is decreased.

Further density reduction is obtained if KCM033 is properly added into PETCem-LD cement systems.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	рН
KCM033	Gray powder	2.36-2.56	Insoluble	>93	Eyes, inhalation	Dust	N/A

3. Chemical Properties and Application

KCM033 is fine inorganic particulates that can be added into cement systems to reduce slurry density. More water can be added into cement slurries while maintaining stable slurry and early compressive strength development because KCM033 is a reactive cement extender. Generally, KCM033 is used at low temperature range (less than 200°F) since it is too reactive at high temperature. Light weight extender KCM033 is used for preparation of cement slurry in density range of 1.3 to 1.6 g/cc. Caution should be taken while adding higher concentration (greater than 10%BWOC) of KCM033 since it increases fluid loss and viscosity of cement slurry.

KCM033 is compatible with most cement additives and can be used in fresh, salt and seawater cement slurries.

4. Treatment

Typically, 5-15% BWOC is good enough in designing slurries containing KCM033. However special job designing tool is available to calculate amount of KCM033 required for PETCem system design. Please contact field engineers for advice.

5. Packaging

KCM033 is supplied in 25kg plastic-lining sacks.