

EUNIGROUT BENTONITE

Structures protection grout



Product Description

EUNIGROUT BENTONITE is blended from naturally occurring materials designed to provide high gelling, lubricative and suspension properties in grouts or slurries. The product is supplied in fine powder form and is off white/yellow in colour and has a flour type appearance.

Uses

EUNIGROUT BENTONITE is used either as a pipe jacking and tunnel shield lubricant or as a slurry or as a gelling material in grouts that need thixotropic properties. EUNIGROUT BENTONITE is also used to create cut offs in diaphragm walls, for piling and also as a drilling mud.

Mixing and Pumping

Water used in the preparation of slurries and grouts should be in compliance with BS EN 1008. Sea water is not recommended due to the possible saline imbalance. It is essential to utilise the correct mixing and pumping equipment to realise the true characteristics of EUNIGROUT BENTONITE grouts or slurries. Mixers that impart energy are required often known as high shear mixers. Recirculating mixers can be used but will limit the potential for thorough gel formation. Positive displacement pumps including diaphragm and piston pumps must be used to convey the material to the point of use.

Physical Properties

Appearance: off white, free flowing powder

Fineness: 95% passing 1504 sieve

Odour: None

Specific Gravity: 800 to 950kg/m³

Slurry Characteristics

Fresh Density g/ml :< 1.1 0

Marcsh Viscosity (946ml) sec: 32-50

PH: 7-11

Yield

As a shield grout lubricant slurry 2 x nominally 25kg bags of EUNIGROUT BENTONITE will produce 1.02m³ i.e 1 tone will produce 20.4m³ of slurry. As a pipe jacking medium 80kg of EUNIGROUT BENTONITE will produce 1.03m³ i.e 1 tone will produce 12.8m³ of slurry.

Workability Characteristics

When prepared as slurry and after the gel hydration has taken place the material will need to be reworked to restart flow. When used in grouts the other ingredients that may be used in the grout formulation will have an impact on the gel or flowing behaviour. Trial mixes should be carried out to establish properties before use.

Packaging and Storage

EUNIGROUT BENTONITE is available in nominal 25kg sacks, palletized and shrink-wrapped. EUNIGROUT BENTONITE can also be supplied in 750kg Intermediate Bulk Containers or in Bulk Powder Tankers. EUNIGROUT BENTONITE should be stored in cool dry areas off the ground, sheeted or under cover and stacked not more than two pallets high to avoid compaction. The product should be used on a first in - first out basis. Shelf life is minimum 12 months subject to conditions of storage, temperature and humidity.

Contact Information

Al-Faiha for Engineering Products
techsupport@alfaihaengineering.com
www.alfaihaengineering.com

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