

EUNIGROUT BENTONITE

STRUCTURES PROTECTION GROUT

DESCRIPTION

EUNIGROUT BENTONITE is a blend of naturally occurring materials specifically designed to deliver exceptional gelling, lubricative, and suspension properties in grouts or slurries.

USES

is a versatile product with multiple applications. It serves as a lubricant for pipe jacking and tunnel shields, ensuring smooth underground construction operations. Additionally, it acts as a slurry or gelling material in grouts requiring thixotropic properties. It is also used in creating cutoffs in diaphragm walls, supporting piling operations, and as drilling mud in various drilling processes.

MIXING

- Avoid using seawater due to potential saline imbalances
- Employ high-shear mixers to achieve thorough gel formation
- Recirculating mixers may limit gelation process effectiveness
- Use positive displacement pumps like diaphragm and piston pumps for effective material conveyance

APPLICATION

When EUNIGROUT BENTONITE is prepared as a slurry and has undergone gel hydration, the material may require reworking to restart flow. When incorporated into grouts, the presence of other ingredients used in the grout formulation may impact the gel or flowing behavior. It is advisable to conduct trial mixes to establish the specific properties before the product's use.

STANDARDS

EUNIGROUT BENTONITE complies with BS EN 1008 standards.

PACKAGING

EUNIGROUT BENTONITE is supplied in nominal 25 kg sacks, palletized, and shrink-wrapped, 750 kg intermediate bulk containers or bulk powder tankers.

TYPICAL PROPERTIES

Appearance	Off-white, free flowing powder
Specific Gravity	800 - 950 g/cm ³
Fineness (1504 Sieve)	95%
Slurry Fresh Density	≥ 52 MPa
Slurry Marsh Viscosity (946 mL)	32 - 50 seconds
Slurry pH	7 - 11

COVERAGE

As a shielded grout lubricant slurry:

- 2 x nominally 25 kg bags will produce 1.02 m³ of slurry.
- 1 ton will produce 20.4 m³ of slurry.

As a pipe jacking medium:

- 80 kg of will produce 1.03 m³ of slurry.
- 1 ton will produce 12.8 m³ of slurry.

STORAGE

EUNIGROUT BENTONITE should be stored and maintained in cool, dry areas, kept off the ground, and either sheeted or placed under cover. When stacking, avoid exceeding a height of more than two pallets to prevent compaction. It is recommended to use the product on a "first in, first out" basis. The shelf life of EUNIGROUT BENTONITE is 12 months from the date of production.

HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

CONTACT

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at techsupport@alfaihaengineering.com.