

MONNELI ARMONITE

Bentonite

Product Description

A natural sodium bentonite composed of montmorillonite and volcanic ash. It is a free flowing product with special waterproofing absorbing, sealing, molding and bonding properties.

When ARMONITE is added to water and activated by a mixer rotating at high speed, it will produce a high viscosity mix with low permeability and lubrication power.

Uses

ARMONITE is suitable to be used in various fields of civil engineering applications where it is required to obtain activation of bentonite.

ARMONITE is added to the mix mainly used in the following:

- Slurry to be used in tunneling
- Micro tunneling and pipe jacking
- Injections and consolidation grouting
- Backfilling mixes in order to fill the gaps between segments liner and soil excavation
- Drilling fluid able to sustain the excavation vertical walls

Other uses:

- Well drilling mud
- Sealing agent
- Asphalt concrete mixtures
- Casting, foundry sand
- Other engineering projects

Advantages

- Excellent swelling properties
- High thermal stability
- High plasticity and tensile strength
- Good sealing and waterproofing properties
- Excellent absorbing properties
- Good bonding and molding properties

Dosage

The amount of ARMONITE in water depends on the specific requirement of the application.

Technical Data

Properties	Results
Appearance	Powder
Colour	Brownish yellow, white, grey, white
Density	2.35 kg/L
Moisture content	6 - 10 %
Montmorillonite content	75 - 85%
Consumption	72 – 96 ml/g
Alkalinity (pH)	9.2 - 10.2
Compressive strength	0.70-0.90 kg/cm ²
Wet tensile strength	0.24-0.35 N/cm ²
SiO ₂	58 %
Al ₂ O ₃	14 %
Fe ₂ O ₃	4 %
MgO	4 %
Na ₂ O	2 %

All values are subject to 5-10 % tolerance

Packaging

ARMONITE is supplied in 25kg bags.

Storage

One year in closed containers stored under moderate temperature (+10°C to +40°C).

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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DUBAI
ABU DHABI
KSA
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
P.O. Box 335896 Code: 11383 - Riyadh KSA
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +966 1 2654277 F. +966 1 2654335
T. +39 75 9221297 F. +39 75 9221174

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colmef@colmef.ae

www.colmef-me.com