MUOVITECO 1.2 GROUT

CEMENT FREE GROUT MADE FROM 100% NATURAL MATERIALS

DESCRIPTION

MuoviTeco 1.2 uses a selection bentonite silica blend and is a unique all in one solution for promoting efficient heat transfer for geothermal loops. It is a non-hardening slurry and therefore easy to remove after extended periods of time making it easier and quicker to clean up afterwards.

MuoviTeco 1.2 is specially developed for geothermal and other grout applications where long term stability, resistance to drying out and good thermal conductivity up to 1.2 W/mK are required. To achieve a very solid, low permeability, flexible seal with exceptional sealing properties. It is cement free and offers high fluidity over long distances.

The mixture has minimal setting and can be mixed with all available mixing equipment.
The formula is a very cost effective grout when the natural thermal conductivity of the geology is low (Oxford Clay for example) or where the design of the borehole with a lower conductivity is compensated for by extra meters drilled. It is cement free and others unrivalled high fluidity.

ADVANTAGES

• Easily soluble in water and quick to mix with a thermal conductivity up to 1.2 W/mK with a high yield economic volume.
• The mixture has minimal setting and can be mixed with all available mixing equipment. Very best results are achieved with a colloidal mixer.
• It is easy to mix with slow swelling and controlled viscosity with an easy and fast pump rate for a low density grout with exceptional high yield.
• The grout provides excellent long term sealings.
• Low carbon footprint due to absence of cement.
• Low wear and tear due to max 100 micron particle size.
• Mixers can be quickly and easily hosed down after use because non cement base.

HEAT CONDUCTIONS

• Maximum particles size 0.10mm
• Water permeability coefficient <1x 10-9 m/s
• The determination of the thermal resistance was made using the needle method in accordance with ASTM D5334-22 ae1

TECHNICAL SPECIFICATION

W/mK	1.2
Water / Grout Ratio	1.5L/KG
Grout Volume m3/T	2000L
Density Kg/L	1.35 KG/L

BAG & BULK BAG SIZE

25kg bag with 40 bags on a euro pallet or 1000kg . Bulk bag are doubled bagged with enhanced plastic lining inner bag. They are closed / tied off on top by a filling sock.

SAFETY AND STORAGE

• Handle with care to avoid dust formation.
• Ware gloves to avoid mechanical irritation.
• Consider manual handling when using bagged products.
• Safe storage— Materials should be stored to minimize for formation of airborne dust from wind gusts and material movement.
• Inhalation ; Remove person to fresh air and keep at rest. If recovery is not rapid, seek medical attention.
• Skin contact: Remove contaminated clothing, wash with soap/cleaner and rinse with plenty of water.
• Eye contact: Do not rub, Material is abrasive and may scratch the eye. Rinse immediately and thoroughly with water. Seek medical attention if irritation persists.

SHELF LIFE

Grout has a maximum of 6 months shelf life from date of production. Outside storage for more than 3 months is not recommended

KIWA PRODUCT CERTIFICATE

This product is certified via KIWA
Certificate no NL BSB K106372/01

MuoviTech®

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