



Multicrete Anchor Grout

Technical Data Sheet

Below Ground Applications

Product Description

Multicrete Anchor Grout is an un-sanded, cement based expanding grout containing silica fume (micro silica) and other carefully selected additives.

Features and benefits

- Pumps easily and gels after placement
- Freeze and thaw durability
- Superior bond
- Non-corrosive
- Excellent performance in colder temperatures down to 5°C

Uses

Multicrete Anchor Grout can be used for most grouted anchor requirements including:

- Rock bolts or soil anchors in tunnel support systems
- Earth tiebacks for excavation or slope stabilizations
- Cable bolting
- Soil or rock tendons used for anchoring piles or foundation structures

Advantages

High Early Strength: Multicrete Anchor Grout has superior early strength gain compared to Type 30 grout, allowing early tensioning of anchors. It has comparable strength gain to high alumina grouts but **does not** experience strength regression.

Resistance to Water Washout: Multicrete Anchor Grout has excellent cohesive properties. It resists washout or dilution by water and thus can be used in wet ground conditions and still retain its excellent physical properties.

Reduced Grout Times: Multicrete Anchor Grout has thixotropic properties and gels after placement or pumping. This gelling action prevents the loss of grout in porous or fractured geology.

Positive Expansion: Multicrete Anchor Grout's positive expansion ensures contact between host material and any anchors used to improve ground stability (1 – 3%)

Procedure and Application

Multicrete Anchor Grout's thixotropic properties make the grout appear thick and cohesive while the grouts properties remain pumpable. Over-watering will result in reduced compressive strength and inferior physical properties.

Limitations

Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per sack will result in inferior physical properties.

Step 1: Introduce $\frac{3}{4}$ of potable water into a high shear mixer or a paddle hand mixer and add Multicrete Anchor Grout while operating at medium speed. Add up to the total recommended water

Step 2: Mix at high speed for a maximum of five minutes



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The data outlined below is representative of typical values achievable under controlled laboratory conditions. Results obtained in the field below may vary from those stated.

All test results are based off the maximum water content stated in the mixing instructions. Product technical properties are derived through batching and testing performed under laboratory conditions.

Packaging:

Density:

Yield:

Mixing Time:

Set Times

Initial Set:

Final Set:

Flow Cone:

Compressive Strength

At 23°C At -5°C At -15°C

24 Hours

7 Days

28 Days

Packaging

Multicrete Anchor Grout is packaged in 20 kg bags. All Multicrete Anchor Grout packaged materials can be custom packaged to meet specific project requirements

Handling & Storage

Avoid formation of respirable particles when handling Multicrete Anchor Grout and all other Multicrete materials. Avoid exceeding the given occupational limits.

Always follow standard hygiene when handling chemical products. When storing chemical products - keep material stored in their original container, keep well ventilated, dry, and observe label precautions when handling and storing. Make sure stored products are in accordance with local regulations.

Safety Precautions

Multicrete Anchor Grout contains Portland cement and carefully selected additives. Normal safety wear such as dust masks and rubber gloves used to handle conventional cement-based products should be worn.