



# MULTIgrout “Anchor Grout”

## Technical Data Sheet

### Resistant to Water Washout

### Anchor Grout for below ground applications

[multicretesystems.com](http://multicretesystems.com)

#### **Product description**

MultiGrout Anchor Grout is an un-sanded, cement-based expanding grout containing silica fume (microsilica) and other carefully selected additives. MultiGrout Anchor Grout gains strength quickly and resists water washout, making it ideal for anchoring tendons, cables and bolts into soil or rock media.

#### **Features and benefits**

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

#### **Uses**

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

- Earth tiebacks for excavation and slope stabilization
- Rock bolts or soil anchors in tunnel support systems
- Soil or rock tendons used for anchoring piles or foundation structures
- Infill of pipe piles
- Below ground applications where a longer pot life and more flowable product is needed

#### **Advantages**

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

**Resistance to water washout:** MultiGrout 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:** MultiGrout Anchor Grout has thixotropic properties. It tends to gel after placement or pumping. This gelling action prevents the loss of grout in porous or fractured geology.

**Positive expansion:** MultiGrout Anchor Grout’s positive expansion ensures contact between host material and any anchors used to improve ground stability.

#### **Mixing water content**

Recommended Water Qty/20 kg bag

Flowable: .25wcm 5.0 litres (1.32 US gal)

Over watering will result in compressive strengths and inferior physical properties.

#### **Application**

MultiGrout Anchor Grout’s thixotropic properties make the grout appear thick and cohesive when in fact it is quite pumpable.

Step 1: Introduce potable water into a high shear mixer or a paddle hand mixer, and then add MultiGrout Anchor Grout while operating at medium speed.

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

#### **Packaging**

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

#### **Safety Precautions**

MultiGrout Anchor Grout contains Portland cement and carefully selected additives. Normal safety wear such as dust mask and rubber gloves used to handle conventional cement based products should be worn. Safety Data Sheets (SDS) are available.

#### **Limitations**

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

MULTIgrout Anchor 1/2

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#### **Technical Data**

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

Typical Properties at Flowable Consistency (Corps of Engineers CRD-C821 and ASTM C1107)

Recommended water for flowable	.25w/c
Sulphate Resistance	.42% at 6 months
Plastic Expansion	1 to 3%
Hardened Expansion	.21%
Initial Set	.25w/c 75min
Final Set	.25w/c 126min
Flow	20 to 30 Sec

#### **Compressive Strength Data 20°C**

1 day (Flowable) @ 18MPa  
3 day (Flowable) @ 30MPa  
7 day (Flowable) @ 40 MPa  
28 day (Flowable) @ 65Mpa

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