

Description

Water Cut-Off Grout is an unsanded blend of cement, silica fume (microsilica) and other carefully selected admixtures. It is designed to be a pumpable grout that resists washout by flowing water and behaves similar to a microfine cement.

Advantages

Water Cut-Off Grout is pumpable, yet resists washout from flowing water.

- Extremely fine particle size allows grout to penetrate into soils and rock not penetrable by normal cementitious grouts
- Evenly distributed particle size reduces bridging and plugging within the grouted mass yielding a higher quality grout and great void reduction at lower pumping pressures
- Requires only the addition of potable water. It does not require the addition of caustic or difficult to handle admixtures
- The bond between Water Cut-Off Grout and steel is greatly enhanced compared to ordinary grouts.
- Can be mixed to a wide variety of consistencies and pumped using standard cementitious grouting equipment

Where to Use

- Any application where flowing water must be overcome
- Pumped into rock fissures to stop water flow in mines and tunnels
- Grouting earth tieback anchors into porous soil where water is flowing into drill holes

Typical Properties

1. Mix Water Cut-Off Grout to as stiff as consistency as the pump can handle. This will range from between 2.4 and 2.9 gallons of mix per 66lbs. Mix water should not exceed 11 liters per 66lbs.
2. Introduce water into a clean high shear mixer and then add Water Cut-Off Grout while operating the mixer at medium speed.
3. Mix at high speed for at least 5 minutes. A very thorough high speed mixer is necessary - an older style mortar mixer is not satisfactory for this.
4. Decrease mixer speed to low, but ensure that mixing continues while



WATER CUT-OFF GROUT

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pumping the grout. The grout has a pot life of 5 hours.

Technical Data

Compressive Strength (ASTM C109)

(Water Cut-Off vs Earth Tieback Formulation)

1 Day: 7Mpa/1020psi - 37 Mpa/5370psi

7 Day: 14Mpa/2030psi - 70Mpa/10,150psi

Packaging

Water Cut-Off Grout is packaged in super sacks, to specified weight not exceeding 2000lbs.

Safety Precautions

Water Cut-Off Grout contains Portland cement plus non-caustic, non-toxic microsilica and carefully selected additives. Normal safety wear such as duct mask and rubber gloves used.