DESCRIPTION
Ultrafine cementitious grouts are composed of a finely ground mixture of Portland cement, pumice pozzolan, and dispersant. Avanti’s Ultrafine grout has an average particle size of 3 microns, in stark contrast to typical particle sizes of 60 to 70 microns in conventional cements. Ultrafine SD grout is formulated with a naphthalene sulfonate based superplasticizer for a fool proof system with minimal bleed and high compressive strengths for use in both rock fracture and soil stabilization applications.

APPLICATION
• Stabilizing weak soils
• Sealing seepage in mines, dams, and tunnels
• Low permeability grout curtaining
• Hazardous waste containment
• Oil well squeeze cementing

FEATURES AND BENEFITS
• Smaller particle size will penetrate smaller fractures and finer soils
• Ready to use – no additives required
• Stable North American source of supply
• Composed of non-hazardous materials
• Lower permeability, means reduced hydraulic conductivity and extended longevity when compared to ordinary Portland cement.

GROUTING TECHNIQUES
• Probe Grouting
• Curtain Grouting

HOW IT WORKS
The chemical synergy created by combining finely ground OPC with highly reactive natural pumice pozzolan and naphthalene sulfonate-based superplasticizer allows for a confident design with minimal bleed and high compressive strengths.

OPTIONAL ADDITIVES
• Additional additives may be used based on contractor field tests and project parameters.

PACKAGING
• Standard packaging is in 44 lbs. (20 kg) bags or 2,000 lbs. (900 kg) Super Sacks.

SHIPPING
• Motor Class 55
• Non-Hazardous
• Air freight is NOT available

MIX PROCEDURE
These precise mixing instructions must be followed for best results:
1. Mixer should be a high-shear 'colloidal' mixer.
2. Recommended Water/dry grout ratio is 0.8/1 by weight.
3. Add water to mixer and set unit on high speed.
4. Slowly add dry grout to mixer.
5. Mix at high speed for desired time limit.

IMPORTANT:
NEVER blend USG Super with Ultrafine SD. The two products are incompatible and will negatively affect the set time and strength of the cement.

CLEANING PRODUCTS
Use water with light detergent.