



*U.S. Grout Ultrafine VX is a uniquely formulated cementitious grout that combines ultrafine particle size (average 3 micron), a pozzolanic charge for enduring strength and density, and a liquid super-plasticizer (USG-Super) that amplifies the fine-soil permeating rheology of the grout, allowing it to penetrate deeply and permeate completely the pore spaces in even fine-grained soils. Effective permeation of type VX was dynamically demonstrated at the sand column testing event during the June 2013 Grouting Conference at the Colorado School of Mines. Injected into a very fine colloidal silica sand and using a standard 2 to 1 water/grout ratio, US Grout Ultrafine VX charged up the 60-inch sand-filled column in an unheard-of 80 seconds. The PSI at the pump was only at an eight when the grout hit the top (test allows for up to 10 psi and time allowance is 20 minutes). No other cement grout came close. . . not even when adjusted to a more favorable grout/water ratio.

This means the cost effectiveness, strength, enduring life-span, and innocuous nature of a cementitious grout is now available to stabilize a greater range of problem soils than ever before. It's the VX—the variable formulation ability—of the super-p add-mixture that truly expands the range of soils our ultrafine cementitious grout can effectively penetrate. U.S. Grout will work with the project engineer to come up with the baseline mix design for the soil on site.