

AvantiGrout Product Guide



AVANTI

CEMENTITIOUS GROUTS	Description	Applications and General Uses	Packaging (net wt.)
Ultrafine SD Grout (avg. 3 microns) Expansion: None Ratio: See TDS Viscosity: N/A	NSF/ANSI 61 Potable Water Systems Certified. Finely ground mixture of Portland cement, pumice and dispersant; Contains Superplasticizer; Zero bleed and high compressive strength; No additives required; Stable U.S. supply.	Smaller particle size permeates small fractures and fine soils to stabilize weak soils, seal seepages in mines/dams/tunnels, contain hazardous waste, and oil well squeeze cementing. Great for probe and curtain grouting. Stable North American supply.	44 lb. bag Super sack - 2,000 lbs.
CHEMICALLY-REACTIVE GELS			
AV-100® Chemical Grout Liquid and Granular Expansion: None Ratio: 1:1 Viscosity: 1-2 cP (in solution)	Tested and approved for U.S. DOE by Oakridge National Laboratory. Ultra-low viscosity chemically-reactive gel; Similar viscosity to water; Once cured, creates an effective, long-lasting water barrier that stabilizes soil. Available as liquid or granules.	Permeates anywhere water can travel. Cures in controllable time frames of 5 seconds to 10+ hours. Stops infiltration into manholes, sanitary and storm sewers, mainlines, joints, laterals, tunnels, mines and other underground structures by stabilizing external substrates.	Liquid Tote - 2,300 lbs. Drum - 130 lbs. Granular 50 lb. bag 30 lb. bag
AV-118® Duriflex Expansion: None Ratio: 1:1 Viscosity: 1-2 cP (in solution)	Ultra-low viscosity chemically-reactive resin; Similar viscosity to water; Once cured, creates an effective, long-lasting water barrier that stabilizes soil.	Permeates anywhere water can travel. Cures in controllable time frames of 5 seconds to 10+ hours. Stops infiltration into manholes, sanitary and storm sewers, mainlines, joints, laterals, tunnels, mines and other underground structures.	Tote - 2,500 lbs. Drum - 135 lbs.
AV-160 SuperGel™ Expansion: Slight Ratio: 1:1 Viscosity: 3-4 cP (in solution)	Non-Acrylamide product; Non-toxic; Ultra-low viscosity chemically-reactive acrylate gel; Similar viscosity to water; Creates an effective, long-lasting water barrier that stabilizes soil.	Permeates anywhere water can travel. Cures in controllable time frames of 5 seconds to 10+ hours. Stops infiltration into manholes, sanitary and storm sewer mainlines, joints, laterals, tunnels, mines and other underground structures.	Tote - 2,500 lbs. Drum - 135 lbs. Pail - 46 lbs.
LIFTING FOAM			
AV-600 SureLift™ Series Expansion: 1,500-2,000% Ratio: 1:1 Viscosity: (A) 360-475 cP/ (B) 200 cP	Dual component, all PMDI-based urethane foam system; low viscosity design allows material to blend together with typical mix machines/hand mixer. Fast and slow versions available.	Engineered for concrete lifting, soil stabilization and void fill. Slow is the speed of choice when the cavity to be filled is large. A slow reactivity will allow longer shot times.	Tote- A 2,585 lbs. B: 2,181 lbs. Drum- A: 517 lbs. B: 436 lbs. Pail A- 477 lbs. B: 39.6 lbs.
URETHANE GELS			
AV-254 Gelseal™ Expansion: Slight Water to Resin Ratio: 8:1 Viscosity: 10 cP (in solution)	Prepolymer resin that reacts with water; No pre-mixing required; 5 gal. of resin makes up to 45 gal. of solution; Quickly permeated soil to produce a strong gel/soil matrix and effective water barrier that stabilizes soil.	Excellent permeation properties when injected in water. Stops infiltration into manholes, sanitary and storm sewers, mainlines, joints, tunnels, mines and other underground structures. The addition of AV-255G accelerates cure time.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs.
AV-350 Multigel™ Expansion: Slight Water to Resin Ratio: 8:1 Viscosity: 10 cP (in solution)	Prepolymer resin that reacts with water; No pre-mixing required; 5 gal. of resin makes up to 45 gal. of solution; Produces effective water barrier that stabilizes soil. Contains dimethyl ketone (acetone).	Quickly permeates soil. Stops infiltration into manholes, sanitary and storm sewers, mainlines, joints, tunnels, mines and other underground structures. Hygroscopic and FOG solvent. The addition of AV-351 accelerates cure time.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs.
ELASTOMER			
AV-200 Dura-Set™/AV-201 Expansion: None Ratio: 1:1 Mixed Viscosity: 1,460 cP	High performance, dual component polyurethane elastomeric resin; Injected, sprayed or troweled; Creates pliable rubber that is unaffected by water, wet/dry cycles, or UV rays.	Combines strength and flexibility to fill cracks, joints, and prevent leaks in concrete. Can be used as surface coating/waterproofing material or rubber gasket. The addition of AV-201 increases adhesion.	5-Gallon Kit - 19.0 L 1-Gallon Kit - 3.8 L
AUXILIARY PRODUCTS			
Catalysts for use with AV-100, AV-118 and AV-160 AV-101® Catalyst T+ AV-102® Catalyst AP AV-103® Catalyst SP Additives AV-105 Gel Guard AV-255G Accelerator AV-257 Icoset AV-351 Accelerator Tracer Dyes Potassium Ferricyanide (KFe)	Pump Flush and Cleaners AV-208 Technical Grade Acetone AV-222 Cleaner AV-284 Pump Wash Resin Injectors 3/8" Bang-In Injector EZ-1 EZ-3P EZ-4 Mechanical Injectors	Accessories "F" Assembly Wall Spear Assembly Resin Injection Gun Needles Button Head Coupler Coupler Moisture-Resistant Hose Injection Hose Kit Injector Extensions	Oakum AV-219 Fibrotite Resin Rod AV-215 Resin Rod

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HYDROPHILIC FOAMS	Description	Applications and General Uses	Packaging (net wt.)
AV-202® Multigrout AV-202-NTP Multigrout NTP™* Expansion: 400-600% Water to Resin Ratio - 1:1-12:1 Viscosity: 3,200-6,000 cP	NSF/ANSI 61 Potable Water Systems Certified. Single component moisture-activated MDI/TDI based polyurethane resin; Versatile and flexible; Forms tough, impermeable foam or gel with superb adhesive qualities.	Seals high volume water leaks in large cracks or joints in concrete structures. Excellent binding capabilities and can absorb up to 12x its weight in water. Can be used in conjunction with AV-215 Resin Rod or AV-219 Fibrotite (Oakum).	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs. Cartridge - 10.114 fl. oz.
AV-202-LV Multigrout LV™ Expansion: 400-600% Water to Resin Ratio - 1:1-10:1 Viscosity: 650-800 cP	Single component moisture activated MDI/TDI polyurethane resin; Forms resilient and flexible - yet tough - closed-cell foam with superb adhesive qualities.	Low viscosity version of AV-202. Designed to penetrate/seal active water leaks in tight cracks or joints in concrete structures. Endures high water flows; Absorbs up to 10x its weight in water.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs. Cartridge - 10.114 fl. oz.
AV-315 Microfoam™ Expansion: 400-600% Water to Resin Ratio: 1:1 Viscosity: 50-100 cP	NSF/ANSI 61 Potable Water Systems Certified. Single component, moisture-activated polyurethane resin; Forms dense, resilient, impermeable closed-cell flexible foam with good adhesive properties.	Extremely low viscosity design for sealing active water leaks in very fine cracks or joints in below-grade structures including basements, vaults, tunnels, mines.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs.
AV-330 Safeguard™ AV-330-NTP Safeguard NTP™* Expansion: 400-600% Water to Resin Ratio: 1:1 Viscosity: 350-750 cP	NSF/ANSI 61 Potable Water Systems Certified. 100% MDI-based single component polyurethane resin; Cures to a resilient, flexible - yet tough - closed-cell foam.	Seals active leaks in below-grade structures. Mid-range viscosity permeates well in various cracks and joints, but offers added safety in confined spaces where ventilation is poor. Great for manholes and pipe penetrations.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs.
AV-333 Injectaflex™ Expansion: 400-600% Water to Resin Ratio: 1:1 Viscosity: 350-750 cP	NSF/ANSI 61 Potable Water Systems Certified. Single component polyurethane resin; Contains dimethyl ketone (acetone); Forms resilient, flexible - yet tough - closed-cell foam.	Seals active water leaks in mid-size cracks or joints in below-grade concrete structures. Hygroscopic and FOG solvent. Great for manholes, basements and retaining walls. Use for applications involving plastics.	Drum - 465 lbs. Pail - 44 lbs. Gallon - 8 lbs.
HYDROPHOBIC FOAMS			
AV-248 Flexseal™/AV-249 Expansion: 400-600% Ratio: See TDS Viscosity: 150-250 cP (LV/low) 550-830 cP	LV Version NSF/ANSI 61 Potable Water Systems Certified. Injected as single component; Moisture activated MDI-based polyurethane resin; Withstands wet/dry cycles; Forms resilient, impermeable, flexible foam. AV-249 is used exclusively with AV-248, and AV-249-LV is used exclusively with AV-248-LV.	Designed to seal active or potential water leaks in cracks, annular spaces, pipe penetrations and above/below-grade concrete structures where high flexibility is needed. Used in tunnels, mines, dams, reservoirs, block walls and structures that may shift.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs. Cartridge - (248-LV) 750 ml (249-LV) 75 ml Catalyst - 16 oz. (LV) 32 oz.
AV-275 Soilgrout™/AV-276 Expansion: Up to 3,000% Ratio: See TDS Viscosity: 30-55 cP	NSF/ANSI 61 Potable Water Systems Certified. Injected as single component; Moisture-activated MDI-based polyurethane resin; Withstands wet/dry cycles; forms dense, impermeable, rigid foam. AV-276 is used exclusively with AV-275.	Low viscosity allows for excellent permeation, binding and waterproofing of loose, granular soils. Used to fill voids, stop high water flows, stabilize soils.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs. Cartridge - (275) 750 ml (276) 75 ml Catalyst - 32 oz.
AV-278 Low Vis Hydro™/AV-279 Expansion: 1,500-2,000% Ratio: See TDS Viscosity: 25-100 cP	Injected as single component; Moisture-activated MDI-based polyurethane resin; Withstands wet/dry cycles; forms closed-cell, impermeable, semi-rigid foam. AV-279 is used exclusively with AV-278.	Low viscosity design for soil permeation with high expansion to fill voids, stop active or potential water leaks and stabilize soils on exterior of below-grade structures.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs. Catalyst - 78 oz.
AV-290 Fast-Set™ Expansion: 1,500-2,000% Ratio: 1:1 (No Water Required) Viscosity: (A) 200 cP (B) 800 cP	Mid-range, dual component MDI-based polyurethane resin; Reacts within seconds when Part A and Part B are mixed; Withstands wet/dry cycles; Forms rigid, impermeable, closed-cell foam. No water required for reaction.	Rapidly reacts. Designed to fill large voids on the exterior of below-grade structures - including manholes, culverts - where high water flow is present.	Pail Kit - (A) 47 lbs. (B) 39 lbs. Cartridge - (A) 126 ml (B) 126 ml Dual Cartridge - (A) 325 ml (B) 325 ml
SOIL STRENGTHENER			
AV-550 Soil Strengthener™/AV-551 Expansion: Slight Ratio: See TDS Viscosity: 25 cP ± 5	Single component polyurethane resin; Moisture activated; When the reaction occurs, a slight expansion of the resin is noticeable and the material quickly cures to an open cell foam which is impervious to corrosive environments and microorganisms. AV-551 is used exclusively with AV-550.	Permeates and stabilizes various soils under concrete slabs, roads and other structures. Increases load-bearing capacity of permeable soil by increasing the cohesion between soil particles by filling voids.	Drum - 484 lbs. Pail - 44 lbs. Gallon - 8 lbs. Catalyst - 32 oz. 37.5 lb. (pail)

* Non-potable version (NTP)