



AvantiGrout Product Guide

Cementitious Grouts + Chemically-Reactive Gels + Lifting Foam
Urethane Gels + Elastomers + Auxiliary Products

† Contains no phthalates, VOCs, CFCs or VFCs

CEMENTITIOUS GROUTS	Viscosity	Description	Applications and General Uses	Packaging (net wt.)
Ultrafine Cement (avg. 3 microns) † Expansion: None Ratio: See TDS	N/A	NSF/ANSI 61 Potable Water Systems UL Certified; Finely ground mixture of Portland cement, pumice & dispersant; Contains Superplasticizer; Zero bleed & high compressive strength; No additives required; Stable U.S. supply.	Smaller particle size permeates small fractures & fine soils to stabilize weak soils, seal seepages in mines/dams/tunnels, contain hazardous waste, & oil well squeeze cementing. Great for probe & curtain grouting.	44 lb. bag (54 bags/pallet) Super sack - 2,000 lbs. Pneumatic Truck
Microfine Cement (avg. 7 microns) † Expansion: None Ratio: See TDS	N/A	Finely ground mixture of Portland cement, pumice & dispersant; Contains Superplasticizer; Zero bleed & high compressive strength; No additives required; Stable U.S. supply.	Smaller particle size permeates small fractures & fine soils to stabilize weak soils, seal seepages in mines/dams/tunnels. Low internal cohesion means better permeation & less drilling costs.	44 lb. bag (54 bags/pallet) Super sack - 2,000 lbs. Pneumatic Truck
CHEMICALLY-REACTIVE GELS				
AV-100 Chemical Grout Liquid and Granular Expansion: None Ratio: 1:1	1-2 cP (in solution)	Tested & approved for the 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.	Permeates anywhere water can travel. Cures in controllable time frames of 5 sec. to 10+ hrs. Stops infiltration into manholes, sanitary & storm sewers, mainlines, joints, laterals, tunnels, mines & other underground structures by stabilizing external substrates.	Liquid Tote - Net wt: 2,300 lbs. Drum - Net wt: 130 lbs. Granular 50 lb. bag (32 bags/pallet)
AV-118 Duriflex Expansion: None Ratio: 1:1	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 sec. to 10+ hrs. Stops infiltration into manholes, sanitary & storm sewers, mainlines, joints, laterals, tunnels, mines & other underground structures.	Tote - Net wt: 2,430 lbs. Drum - Net wt: 135 lbs.
AV-160 SuperGel Expansion: Slight Ratio: 1:1	4-8 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 sec. to 10+ hrs. Stops infiltration into manholes, sanitary & storm sewer mainlines, joints, laterals, tunnels, mines & other underground structures.	Tote - Net wt: 2,250 lbs. Drum - Net wt: 130 lbs.
LIFTING FOAM				
AV-600 SureLift/Fast & Slow Version † Expansion: 1500-2000% Ratio: 1:1	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.	Engineered for concrete lifting, soil stabilization & void fill. Slow version's delayed reaction allows longer shot times when the cavity being filled is large.	Tote - A: 2,585 lbs. B: 2,230 lbs. Drum-A: 517 lbs. B: 446 lbs. Pail-A: 44 lbs. B: 38 lbs.
URETHANE GELS				
AV-254 Gelseal/AV-255G † Expansion: Slight Water to Resin Ratio: 8:1	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 a strong gel/soil matrix & an effective water barrier that stabilizes soil.	Excellent permeation properties when injected in water. Stops infiltration into manholes, sanitary & storm sewers, mainlines, joints, tunnels, mines & other underground structures. Addition of AV-255G accelerates cure time.	55-Gallon Drum 5-Gallon Pail
AV-350 Multigel/AV-351 Expansion: Slight Water to Resin Ratio: 8:1	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 an effective water barrier that stabilizes soil. Contains dimethyl ketone (acetone).	Quickly permeates soil. Stops infiltration into manholes, sanitary & storm sewers, mainlines, joints, tunnels, mines & other underground structures. Hygroscopic & FOG solvent. Addition of AV-351 accelerates cure time.	55-Gallon Drum 5-Gallon Pail
ELASTOMERS				
AV-200 Duraset/AV-201 Primer † Expansion: None Ratio: 1:1	1460 cP (A/B mixed)	Dual component polyurethane elastomeric resin; Injected, sprayed or troweled; Creates a pliable rubber that is unaffected by water, wet/dry cycles, or UV rays.	Combines strength & flexibility to fill cracks/joints, & prevent leaks in concrete. Can be used as a surface coating/waterproofing material or rubber gasket. Addition of AV-201 increases adhesion.	55-Gallon Drum 5-Gallon Pail Dual Cartridge

AUXILIARY PRODUCTS

Catalysts

AV-101 Catalyst T+
AV-102 Catalyst AP
AV-103 Catalyst SP

Other Additives

AV-105 Gel Guard
AV-257 Icoset
AC-50W
Tracer Dyes
KFe

Pump Flush

AV-208 Technical Grade Acetone
AV-222 Cleaner
AV-284 Pump Wash

Accessories

"F" Assembly & Injection Guns
Wall Spear Assembly
Couplers & Injectors
Pumps & Hose Kits
Oakum & Resin Rod
Personal Protective Equipment (PPE)





AvantiGrout Product Guide

Hydrophilic + Hydrophobic Foams

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HYDROPHILIC FOAMS	Viscosity	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	3200-6000 cP	NSF/ANSI 61 Potable Water Systems UL Certified; Single component moisture activated MDI/TDI based polyurethane resin; Versatile & flexible; Forms a 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 & can absorb up to 12x its weight in water. Can be used in conjunction with AV-215 Resin Rod or AV-219 Fibrotite (Oakum)	5-Gallon Pail 1-Gallon Container Cartridge
AV-202-LV Multigrout LV † Expansion: 400-600% Water to Resin Ratio - 1:1-10:1	650-800 cP	Single component moisture activated MDI/TDI polyurethane resin; Forms a 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 weight in water.	5-Gallon Pail 1-Gallon Container Cartridge
AV-315 Microfoam † Expansion: 400-600% Water to Resin Ratio: 1:1	50-250 cP	NSF/ANSI 61 Potable Water Systems WQA Certified; Single component moisture activated polyurethane resin; Forms a 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 - basements, vaults, tunnels, mines.	5-Gallon Pail 1-Gallon Container
AV-330 Safeguard AV-330-NTP Safeguard NTP* † Expansion: 400-600% Water to Resin Ratio: 1:1	350-750 cP	NSF/ANSI 61 Potable Water Systems UL 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 & joints, but offers added safety in confined spaces where ventilation is poor. Great for manholes & pipe penetrations.	5-Gallon Pail 1-Gallon Container
AV-333 Injectaflex Expansion: 400-600% Water to Resin Ratio: 1:1	350-750 cP	NSF/ANSI 61 Potable Water Systems UL Certified; Single component polyurethane resin; Contains dimethyl ketone (acetone); Forms a resilient, flexible - yet tough - closed-cell foam.	Seals active water leaks in mid-size cracks or joints in below-grade concrete structures. Hygroscopic & FOG solvent. Great for manholes, basements & retaining walls. Use for applications involving plastics.	5-Gallon Pail 1-Gallon Container
HYDROPHOBIC FOAMS				
AV-248 Flexseal/AV-249 † Expansion: 400-600% Ratio: See TDS	Low (LV) cP 150-250 cP Standard 550-830 cP High (HV) cP 1200±200 cP	LV Version NSF/ANSI 61 Potable Water Systems WQA Certified; Injected as a single component; Moisture activated MDI-based polyurethane resin; Withstands wet/dry cycles; Forms a resilient, impermeable, flexible foam.	Designed to seal active/potential water leaks in cracks, annular spaces, pipe penetrations & above/below-grade concrete structures where high flexibility is needed.	5-Gallon Pail Catalysts: Low cP: 32 oz. Standard: 16 oz. High cP: 25 oz.
AV-260 Fusion Grout/AV-261 † Expansion: 1500-2000% Ratio: See TDS	300-400 cP	Injected as a single component; Moisture activated MDI-based polyurethane resin; Withstands wet/dry cycles; Forms a resilient, impermeable, flexible foam.	Designed to seal active/potential water leaks in cracks, annular spaces & pipe penetrations in above/below-ground concrete structures where flexibility is needed.	5-Gallon Pail Catalyst: 32 oz.
AV-275 Soilgrout/AV-276 † Expansion: 1500-2000% Ratio: See TDS	40-60 cP	NSF/ANSI 61 Potable Water Systems WQA Certified; Injected as a single component; Moisture activated MDI-based polyurethane resin; Withstands wet/dry cycles; forms a dense, impermeable, rigid foam.	Low viscosity allows for excellent permeation, binding & waterproofing of loose, granular soils. Used to fill voids, stop high water flows, stabilize soils.	5-Gallon Pail Catalyst: 32 oz.
AV-278 Low Vis Hydro/AV-279 † Expansion: 1500-2000% Ratio: See TDS	25-100 cP	Injected as a single component; Moisture activated MDI-based polyurethane resin; Withstands wet/dry cycles; forms a closed-cell, impermeable, semi-rigid foam.	Low viscosity design for soil permeation with high expansion to fill voids, stop active/potential water leaks & stabilize soils on exterior of & in below-grade structures.	5-Gallon Pail Catalyst: 64 oz.
AV-280 Hydrofoam/AV-281 † Expansion: 1500-2000% Ratio: See TDS	1700-2200 cP	Injected as a single component; Moisture activated MDI-based polyurethane resin; Withstands wet/dry cycles; forms a dense, impermeable, semi-rigid foam.	High viscosity design does not easily wash away where high volume water flow is present. Fills voids, stops active/potential water leaks & stabilizes coarse soil/gravel.	5-Gallon Pail Catalyst: 16 oz.
AV-290 Fast-Set † Expansion: 1500-2000% Ratio: 1:1 (No Water Required)	A 200 cP B 800 cP	Dual component MDI-based polyurethane resin; Reacts within seconds; Withstands wet/dry cycles; Forms a rigid, impermeable, closed-cell foam.	Rapidly reacts with water. Designed to fill large voids on the exterior of below-grade structures - manholes, culverts - where high water flow is present.	5-Gallon Pail Kit Dual-Chamber Cartridge
AV-550 Soil Strengthener/AV-551 † Expansion: Slight Ratio: See TDS	25 cP	Single component polyurethane resin; Reacts with water; Quickly cures to an open-cell foam which is impervious to corrosive environments.	Permeates & stabilizes various soils under concrete slabs, roads & other structures. Increases load-bearing capacity of permeable soil by increasing the cohesion between soil particles by filling voids.	5-Gallon Pail Catalyst: 32 oz.

* Non-potable version (NTP)

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