



AvantiGrout Product Guide

Hydrophilic Foams + Hydrophobic Foams

	Chemical Grout	Viscosity	Ratio*	Description	General Uses	Packaging
HYDROPHILIC FOAMS	AV-202 Multigrout Expansion: 400-600%	3200-6000 cP	1:1 to 12:1	Durable, versatile, and flexible foam or gel. Excellent for use in heavy flow conditions, as well as under water. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Excellent bonding capabilities. ANSI/NSF 61, UL Certified, Potable Water.	<ul style="list-style-type: none"> - Large cracks or joints in concrete - Dams and reservoirs - Precast structures - Manhole and pipe penetrations - EGP (Oakum Soakum) Technique 	
	AV-202 Multigrout LV Expansion: 400-600%	650-800 cP	1:1 to 10:1	Low viscosity version of the original Multigrout. Versatile injection resin creates a durable, flexible foam or gel. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Excellent bonding capabilities.	<ul style="list-style-type: none"> - Medium to large cracks or joints in concrete - Subways and tunnels - Tie-backs and slurry walls - Manhole and pipe penetrations 	
	AV-315 Micro Foam Expansion: 400-600%	50-200 cP	1:1	Extremely low viscosity injection resin engineered to penetrate fine cracks. Cures to a flexible foam. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable.	<ul style="list-style-type: none"> - Fine cracks or joints in concrete - Retaining walls - Parking structures - Tunnels - Mines 	
	AV-330 Safeguard Expansion: 400-600%	350-750 cP	1:1	Durable MDI-based resin which cures to a flexible foam. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. ANSI/NSF 61, UL Certified, Potable Water.	<ul style="list-style-type: none"> - Medium to large cracks or joints in concrete - Subways and tunnels - Tie-backs and slurry walls - Manhole and pipe penetrations 	
	AV-333 Injectaflex Expansion: 400-600%	350-750 cP	1:1	Flexible-cure hydrophilic with excellent bonding capabilities to concrete, steel, and some plastics. ANSI/NSF 61, UL Certified, Potable Water.	<ul style="list-style-type: none"> - Medium to fine cracks or joints in concrete - Subways and tunnels - Dams and reservoirs - Manhole and pipe penetrations 	
HYDROPHOBIC FOAMS	AV-248 Flexseal AV-249 Catalyst Expansion: 400-600%	550-830 cP	See Tech Sheet	MDI-based flexible-cure hydrophobic . Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Above or below ground - Pipe annulus between slip-liners - Medium to fine cracks or joints in concrete 	
	AV-248 Flexseal LV AV-249 Catalyst LV Expansion: 400-600%	150-250 cP	See Tech Sheet	Extremely low viscosity , MDI-based flexible-cure hydrophobic . Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Above or below ground - Pipe annulus between slip-liners - Fine cracks or joints in concrete 	
	AV-278 Low Vis Hydro AV-279 Low Vis Accel Expansion: 1500-2000%	25-100 cP	See Tech Sheet	Extremely low viscosity, MDI-based resin to seal active water leaks in large voids and annular spaces. Semi-rigid cure. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Stabilize surface soils - Fills voids - Curtain grouting - Probe grouting 	
	AV-280 Hydrofoam AV-281 Hydrocel Expansion: 1500-2000%	1700-2200 cP	See Tech Sheet	MDI-based resin used to fill voids and annular spaces. Semi-rigid cure. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Large voids - Curtain grouting - Probe grouting 	
	AV-290 Fast-Set Expansion: 1500-2000%	A 50-150 cP B 100-300 cP	No Water Required	MDI-based, dual-component resin that reacts within seconds to stop high volume water leaks. Rigid cure. Contains no solvents, VOCs, CFCs, or HFCs. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Manholes - Pipe joints - Storm and drain culverts - Large voids - High volume water leaks 	

* Preferred water-to-resin ratio. Most foams are pumped as a single component.



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Elastomers + Urethane Gels + Chemically Reactive Gels + Cementitious Grout

	Chemical Grout	Viscosity	Ratio	Description	General Uses	Packaging
ELASTOMERS	AV-200 Dura-Set AV-201 Primer Expansion: None	1400 cP (A/B mixed)	See Tech Sheet	Versatile urethane elastomer grout creates a durable rubber that is unaffected by water or UV rays. May be sprayed, injected, or rolled (trowelable version available) onto a surface. Must be applied to a dry surface.	<ul style="list-style-type: none"> - Rubber coating - Fill cracks - Fill joints 	
	AV-254 Gelseal Expansion: None	10 cP in solution Resin: 175-450 cP	8:1 Water/Resin Pump Ratio	Effectively creates water barrier in surrounding soil.	Waterproof/stabilize soil around: <ul style="list-style-type: none"> - Manholes - Pipe joints - Service laterals - Tunnels and dams - Curtain grouting 	
URETHANE GELS	AV-350 Multi Gel Expansion: None	10 cP in solution Resin: 275-450 cP	8:1 Water/Resin Pump Ratio	Effectively creates water barrier in surrounding soil.	Waterproof/stabilize soil around: <ul style="list-style-type: none"> - Manholes - Pipe joints - Service laterals - Tunnels and dams - Curtain grouting 	
	AV-100 Chemical Grout Powder Blend Expansion: None	1-2 cP in solution	1:1 A/B Pump Ratio	Thinnest product on the market. Extremely low viscosity acrylamide powder with gel times from seconds to several hours. Nonflammable.	<ul style="list-style-type: none"> - Sewer lateral/joint sealing - Hazardous waste containment - Waterproofing underground structures - Soil stabilization/probe grouting - Waterstop: tunnels, dams, mines 	
CHEMICALLY REACTIVE GELS	AV-100 Chemical Grout Liquid Blend Expansion: None	1-2 cP in solution	1:1 A/B Pump Ratio	Thinnest product on the market. Extremely low viscosity acrylamide resin with gel times from seconds to several hours. Nonflammable.	<ul style="list-style-type: none"> - Sewer lateral/joint sealing - Hazardous waste containment - Waterproofing underground structures - Soil stabilization/probe grouting - Waterstop: tunnels, dams, mines 	
	AV-118 Duriflex Expansion: None	1-2 cP in solution	1:1 A/B Pump Ratio	Thinnest product on the market. Extremely low viscosity acrylic resin with gel times from seconds to several hours. Nonflammable.	<ul style="list-style-type: none"> - Sewer lateral/joint sealing - Hazardous waste containment - Waterproofing underground structures - Soil stabilization/probe grouting - Waterstop: tunnels, dams, mines 	

	Grout	Particle Size	Ratio	Description	General Uses	Packaging
CEMENT	Ultrafine Cementitious Grout Expansion: None	90% <8 microns, average 4 microns	See Tech Sheet	Smaller particle size will penetrate small fractures and finer soils. Low internal cohesion means better penetration and less drilling costs. Nonhazardous.	<ul style="list-style-type: none"> - Stabilizes weak soils - Seals seepage in mines, dams, and tunnels - Hazardous waste containment - Oil-well squeeze cementing 	

Auxiliary Products

OTHER	<ul style="list-style-type: none"> - Injectors & Couplers - Pumps & Hoses - Injection Hose Kit - Oakum 	<ul style="list-style-type: none"> - Resin Rod - Catalysts - Technical-Grade Acetone - Cured-Resin Remover 	<ul style="list-style-type: none"> - Latex - Dyes - Root Inhibitor - Personal Protective Equipment
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