



AvantiGrout Product Guide

Hydrophilic Foams + Hydrophobic Foams






	Chemical Grout	Viscosity	Ratio*	Description	General Uses	Packaging
HYDROPHILIC FOAMS	AV-202 Multigrout	2200 - 2500 CPS	1:1 to 12:1	Durable and versatile elastic foam or gel. Excellent for heavy or light flow conditions, as well as under water. Nonflammable. Cartridges available. 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 	
	AV-310 Hydro Sealant	650 - 800 CPS	1:1	Rapid curing, easily pumped resin usually injected into 1/16" to 1/4" cracks. Nonflammable.	<ul style="list-style-type: none"> - Medium to large cracks or joints in concrete - Subways and tunnels - Tie-backs and slurry walls 	
	AV-315 Micro Foam	50 - 200 CPS	1:1	Extremely low viscosity injection resin engineered to penetrate fine cracks. Nonflammable.	<ul style="list-style-type: none"> - Fine cracks or joints in concrete - Retaining walls - Parking structures - Tunnels - Mines 	
	AV-330 Safeguard	450 - 650 CPS	1:1	Durable MDI-based resin. Excellent bonding capabilities to concrete and some plastics. 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	300 - 600 CPS	1:1	Excellent bonding capabilities to concrete 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 Catalyst: AV-249 Flexseal AC	400 - 650 CPS	See Tech Sheet	MDI-based flexible material with quick reaction time. Expands quickly to fill voids and annular spaces. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Large voids - Pipe annulus between slip-liners - Block wall 	
	AV-275 Soilgrout Catalyst: AV-281 Hydrocel	300 - 500 CPS	See Tech Sheet	MDI-based material that forms a matrix with surface soil to increase stability and strength. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Stabilizes surface soils 	
	AV-280 Hydrofoam Catalyst: AV-281 Hydrocel	750 - 950 CPS	See Tech Sheet	MDI-based, semi-rigid expansive material that reacts rapidly to fill voids and annular spaces. Nonflammable. Withstands wet/dry cycles.	<ul style="list-style-type: none"> - Large voids - Pipe annulus between slip-liners 	
	AV-290 Fast-Set	A 100 - 200 CPS B 700 - 800 CPS	See Tech Sheet	MDI-based, two-component material that reacts within seconds to stop high volume water leaks. Contains no solvents, VOC's, CFC's, or HFC's. Nonflammable.	<ul style="list-style-type: none"> - Manholes - Pipe joints - Storm and drain culverts - Large voids 	

* Standard mix ratio of WATER to RESIN



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Urethane Gels + Chemically Reactive Gels + Cementitious Grout

	Chemical Grout	Viscosity	Ratio*	Description	General Uses	Packaging
URETHANE GELS	AV-254 Gelseal	10 CPS in solution	8:1	Effectively creates water barrier in surrounding soil. Reaction time is controllable from 5 seconds to 1 minute. Nonflammable.	Stabilizes soil around: - Manholes - Pipe joints - Service laterals - Tunnels and dams	
	AV-350 Multi Gel	10 CPS in solution	8:1	Effectively creates water barrier in surrounding soil. Reaction time is controllable from 5 seconds to 1 minute.	Stabilizes soil around: - Manholes - Pipe joints - Service laterals - Tunnels and dams	
CHEMICALLY REACTIVE GELS	AV-100 Chemical Grout Powder Blend Shrink-wrapped pallet (24 bags)	1 to 2 CPS in solution	1:1	Extremely low viscosity acrylamide resin with gel times from 5 seconds to several hours. Nonflammable.	- Sewer joint sealing - Sewer laterals - Manhole waterproofing - Soil stabilization - Tunnels/dams waterstop	
	AV-100 Chemical Grout Liquid Blend	1 to 2 CPS in solution	1:1	Extremely low viscosity acrylamide resin with gel times from 5 seconds to several hours. Nonflammable.	- Sewer joint sealing - Sewer laterals - Manhole waterproofing - Soil stabilization - Tunnels/dams waterstop	
	AV-118 Duriflex	1 to 2 CPS in solution	1:1	Extremely low viscosity acrylic resin with gel times from 5 seconds to several hours. Nonflammable.	- Sewer joint sealing - Sewer laterals - Manhole waterproofing - Soil stabilization - Tunnels/dams waterstop	

* Standard mix ratio of WATER to RESIN

	Grout	Particle Size	Ratio	Description	General Uses	Packaging
CEMENT	Ultrafine Cementitious Grout	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.	- Stabilizes weak soils - Seals seepage in mines, dams, and tunnels - Hazardous waste containment - Oil-well squeeze cementing	