

Construction Chemicals, Inc.

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Specification: Chemical Grout (General)

The chemical grout shall be a hydrophobic polyurethane resin. The resin shall have the ability to react in moving water and shall have a controllable reaction time from 20 seconds to one hour for substrate or soil penetration. After cure, the resin must form a dense closed-cell foam which becomes an impermeable gasket and will not allow for any further water intrusion. The cured foam should be capable of 6-7 times expansion in moving crack or joint applications, or 15-20 times expansion when filling voids or stabilizing soils outside of a structure.

The accelerator shall have a tertiary amine base and be capable of controlling the material reaction to any given set time desired.

All chemical grouts must be VOC compliant, contents must be packaged under dry nitrogen and product must be non-toxic.

All materials must meet the following minimum cured and uncured standards as tested by the following ASTM codes.

	Solids 100% ASTM D-1010	Viscosity 600-800 cps ASTM D-1638
Flashpoint 270°F		ASTM D-93
Tensile strength 125 psi	ASTM D-412	Elongation 250% ASTM D-3574
ASTM D-1041		Shrinkage < 4% ASTM D-1041

<i>Large Joints: Uncured Properties</i>		
Solids	100%	ASTM D-1010
Viscosity	1000-1200 cps	ASTM D-1638
Flashpoint	270°F	ASTM D-93
<i>Cured Properties</i>		
Tensile strength	125 psi	ASTM D-412
Elongation	200%	ASTM D-3574
Shrinkage	< 4%	ASTM D-1041

<i>Voids or Soil Stabilization outside of structure: Uncured Properties</i>		
Solids	100%	ASTM D-1010
Viscosity	120-150 cps	ASTM D-1638
Flashpoint	365°F	ASTM D-93
<i>Cured Properties</i>		
Tensile strength	50 psi	ASTM D-412
Elongation	25%	ASTM D-3574
Shrinkage	0%	ASTM D-1041