

ENVIROPLUG® GROUT

CEMENT ACCELERATOR

Enviroplug® Grout is a patented formula bentonite product designed to be used as a water well grouting fluid, drill hole abandonment fluid, grout for geotechnical monitoring wells after casing placement, and other geotechnical construction applications requiring non-destructible sub-grade seals. Once in place, **Enviroplug Grout** begins to set and assumes a caulk-like consistency that contacts formations to establish a low permeability seal (1 X 10⁻⁹ cm/sec).

PHYSICAL AND CHEMICAL PROPERTIES:

Specific Gravity: 10.2lbs/gallon at 30% solids
 Processed Bulk Density: 58.0+4lbs/cubic foot
 Dry Fineness: 80% min passing 200 mesh screen
 Permeability: 1 x 10⁻⁹ cm/sec
 Thermal Conductivity: 0.43 Btu/hr-ft-°F

TYPICAL CHEMICAL ANALYSIS

SiO ₂	61.4%	MgO	1.70%	MnO	0.10%
Al ₂ O ₃	18.1%	CaO ₃	0.40%	H ₂ O	4.50%
Fe ₂ O ₃	3.50%	TiO ₂	0.20%	LOS (Loss on Ignition)	4.37%
K ₂ O	0.10%	Na ₂ O	2.30%		

Mixing Ratios

Dry Grout	Water	Usable Slurry	Solid Content
50lb	14 gal	17 gal	30.0%
50lb	15 gal	18 gal	28.6%
50lb	16 gal	19 gal	27.3%

MIXING & HANDLING

Enviroplug Grout can be mixed and placed using most available pumping equipment. Although paddle type mixers and positive displacement pumps work best, mixing can also be done through re-circulating systems.

Maximum performance is achieved at a ratio of 1 bag to 14 gallons of water (30% solids). Since pumps such as double diaphragm or gear pumps may not produce enough pressure to place highly viscous mixtures, the ratio can be adjusted to 1 bag per 16 gallons of water and still achieve a good grout "set".

As **Enviroplug Grout** is added to the make-up water, a "pan-cake batter" consistency is generated. Pumping at this time is recommended as it minimizes migration into formations and allows for continued hydration to take place down hole.

Provided local regulations allow, it is always recommended to withdraw the tremie line as grout is being pumped. This permits the grout to continue its "set" undisturbed, reduces pump pressure and minimizes unnecessary migration into formations.

WHMIS: Controlled (see SDS)

TDG: Not regulated

Packaging: 50 lb sack/bulk