



ENVIROPLUG[®] GROUT



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 subgrade seals. Once in place, ENVIROPLUG[®] GROUT begins to set and assumes a caulk-like consistency that contacts formations to establish a low permeability seal (1×10^{-9} cm/sec).

MATERIAL SPECIFICATIONS:

Dry Fineness:	80% min. passing a 200 mesh screen
Processed Bulk Density:	58.0 ± 4 pounds/cubic foot
pH:	5% slurry, 8 to 9.8
Specific Gravity:	10.2 pounds/gallon at 30% solids
Permeability:	1×10^{-9} cm/sec
Thermal Conductivity	0.43 Btu/hr-ft-°F

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 recirculating 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.

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

TYPICAL E.P. TOXICITY ANALYSIS		
	Standard (ppm)	Set Grout (ppm)
Arsenic	5.0	<0.10
Barium	100.0	0.50
Cadmium	1.0	<0.05
Chromium	5.0	<0.10
Lead	5.0	<0.10
Mercury	0.2	<0.02
Selenium	1.0	<0.05
Silver	5.0	<0.10

TYPICAL CHEMICAL ANALYSIS %			
SiO ₂	61.40	MgO	1.70
Al ₂ O ₃	18.10	CaO ₃	0.40
Fe ₂ O ₃	3.50	TiO ₂	0.20
K ₂ O	0.10	Na ₂ O	2.30
MnO	0.10	H ₂ O	4.50
L.O.I. *	4.37		
*Loss on Ignition			

ENVIROPLUG[®] GROUT is packaged in 50 pound bags.

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