



# TD-16<sup>®</sup>



TD-16<sup>®</sup> is a one step coated granular bentonite grouting material designed to achieve low permeability seals in water wells, geotechnical borings, and heat pump holes. It achieves a range of solids contents, 16% to 20% solids by weight. TD-16<sup>®</sup>'s granular nature reduces dusty conditions during mixing operations.

Placement of the TD-16<sup>®</sup> is done using a gear, diaphragm, or positive displacement pump. Once in place, the particles continue to swell, sealing off cracks and crevices while gelling to form a caulk-like consistency.

Provided local regulations allow, it is always recommended that the tremie line be withdrawn as the grout is being pumped.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

### MATERIAL SPECIFICATIONS:

Permeability:  $1 \times 10^{-8}$  cm/sec  
 Slurry Density: 9.2 – 9.5 lbs/gal  
 pH Range: 7.0 – 8.9  
 Dry Bulk Density: 65 lbs/cu ft

	16.7%	17.7%	20.0%
	Solids	Solids	Solids
<b>TD-16<sup>®</sup></b>	50 lbs	50 lbs	50 lbs
<b>Water</b>	30 gal	28 gal	24 gal
<b>Usable Slurry</b>	33 gal	31 gal	27 gal

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 <sub>2</sub>	63.54	MgO	1.67
Al <sub>2</sub> O <sub>3</sub>	19.28	CaO <sub>3</sub>	0.38
Fe <sub>2</sub> O <sub>3</sub>	3.48	TiO <sub>2</sub>	0.22
K <sub>2</sub> O	0.10	Na <sub>2</sub> O	2.34
MnO	0.02	H <sub>2</sub> O	4.50
L.O.I. *	4.37		
*Loss on Ignition			

TD-16<sup>®</sup> is packaged in 50 pound bags.