



# TD-16®



## Product Information

### Description

**TD-16®** is a one-step coated granular bentonite grouting material designed to achieve low permeability seals in water wells, geotechnical borings, and heat pump applications. It achieves a range of solids contents, 16% to 20% solids by weight. **TD-16®**'s granular nature reduces dusty conditions during mixing operations and slurry loss to the formation after placement.

### Characteristics

- Permeability: 1 x 10<sup>-8</sup> cm/sec
- Slurry Density: 9.2 – 9.5 lbs/gal
- pH Range: 7.0 – 8.9
- Dry Bulk Density: 65 lbs/cu ft
- Thermal Conductivity: .42 BTU/hr-ft-degree F

### Application

Placement of the **TD-16®** 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 Provided local regulations allow, it is always recommended that the tremie line be withdrawn as the grout is being pumped.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.

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

### Packaging

**TD-16®** is packaged in 50 pound bags.

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