



BIG-FOOT®

POLYMER SLURRY

PRODUCT DATA SHEET



BIG-FOOT® Polymer Slurry is a soil stabilizing polymer. It is an easy mixing, 100% active polymer packaged as a granular powder. As the star of the BIG-FOOT® polymer SLURRY SYSTEM it is formulated to make a viscous slurry fluid fortifying the most challenging soil conditions.

Due to its concentrated formula, small amounts of BIG-FOOT mixed with fresh water builds high viscosity. BIG-FOOT is ideal for drilled shafts, macro and micro-piles, slurry trenching, diaphragm walls, Horizontal Directional Drilling (HDD), reverse circulation (RC) rotary drilling and tunneling.

BENEFITS

- Stabilizes reactive clay and shale formations
- Mixes smoothly into flowing water with minor shear
- Self-cleaning, no solids equipment required
- Improves skin friction & end bearing capacity
- Non-gelling, even at high viscosities, facilitating settlement of fines and maintenance of a clean fluid
- Binds excavated sand & gravel soil for fast drilling and removal of spoils
- NSF Approved



TYPICAL PROPERTIES	
Appearance	White granular solid
pH (0.25% Solution)	8.5 to 9.0
Specific Gravity	1.00-1.01 (water= 1.0)
Bulk Density lb/ft ³	52
Odor	Odorless

BIG-FOOT® Mixed With Water

BIG-FOOT® Granulated Powder

SOIL FORMATION	BIG-FOOT® POLYMER MIX DOSAGE*			MARSH FUNNEL VISCOSITY
	lb/yd ³	lb/1,000 gal	kg/m ³	sec/qtr
Clay & Shale	0.8-1.0	4.0-5.0	0.5-0.6	55-70
Silt & Fine-Medium Sand	1.2-1.25	6.0-6.5	0.7-0.75	75-110
Coarse Sand-Pea Gravel	1.4-1.6	7.0-8.0	0.8-0.9	115-125
Gravel-Cobble	1.7-2.0	9.0-10.0	1.1-1.2	155-195

* When brackish, salt or seawater contaminates slurry or is used as make-up water, BIG-FOOT dosage should be increased.

MIXING INSTRUCTIONS: BIG-FOOT should be mixed at a minimum rate of 4 to 10 lb/1,000 gallons of fresh water pretreated with M-BOOSTER®. For larger projects this should be done in a properly designed mixing tank with proper mixing equipment.



The information contained herein is believed to be accurate and reliable. MATRIX Construction Products, LLC (MATRIX) accepts no responsibility for the results obtained through application of this product. MATRIX reserves the right to update information without notice. For the most current information see our website matrixcp.com.

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MIXING FORMULA (IN ORDER OF ADDITION):

- 1 Prepare the make-up water** by adding M-BOOSTER at a concentration of 6 to 8 lbs/1,000 gallons for a target pH of 9.0 to 10.0.
- 2 If geology consists of gravels and sand with little or no fines add FORTIFY[®]** at a concentration of 4 to 6 lb/1,000 gallons.
- 3 Add BIG-FOOT polymer** at a concentration of 4 to 10 lb/1,000 gallons of water depending on desired viscosity.



On smaller projects or mobile projects, such as Transmission Line and Cell Towers, BIG-FOOT may be added at the excavation by sprinkling carefully into a stream of water directed into the excavation or an agitator mix tank.

Fanning the water stream over a sloping pan or across the blade of an auger facilitates lump-free mixing. If mixed directly in excavation, the tool should be reciprocated gently after product is added to distribute and homogenize the polymer. After completing the addition of BIG-FOOT into the excavation raise and lower the drilling tool from the top of the excavation to the bottom to assist in the proper distribution of the product.

BREAKDOWN: BIG-FOOT slurry can be chemically broken down using NEUTRALIZER[®]. This dry breaker when added into a slurry mixed with BIG-FOOT polymer at a dosage of 2.5 lb/1,000 gallons will reduce the viscosity of the slurry preparing for disposal.

PACKAGING: BIG-FOOT dry polymer is packaged in 35 lb (15.88 kg) plastic pails, 36 per pallet. All pallets arrive wrapped in orange stretch wrap.

AVAILABILITY: BIG-FOOT dry polymer can be purchased through any MATRIX Construction Products Representative. Orders@matrixcp.com



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