



**Product & Mixing Guide**

ProDrill™ is formulated to build viscosity for carrying low density (clay and silt) solids from a bore hole. The blend of polymers in ProDrill offer a high affinity to clay, providing a slick bore hole and smooth, creamy, cuttings consistency. ProDrill also works as a fluid on pipe friction reducer, leading to lower fluid pump pressures and increased pump life.

- ▶ 1-2 EZB treats 500 gallons

**ProDrill is a rapidly hydrating, anionic multi-polymer blend**

**PRIMARY BENEFITS**

- Rapid hydration
- Decreased pressures
- High cuttings content on returns
- Reduced cleanup time

**FAQ's**

**Can ProDrill replace bentonite clay?**

If the clay content is high enough (30% or greater), ProDrill can be a direct replacement. However, ProDrill will not seal sand with a low clay content.

**Is the base oil in the product dangerous to the environment, my equipment, or the conduit?**

The base oil is a biodegradable “mineral oil” that will not leach from the cuttings once bound to the soil – in a typical 500 gallon shot, there is less than 250 ppm of oil present. The half-life should only be a few days or weeks under most soil conditions.

**Will ProDrill freeze?**

No. ProDrill will become more viscous, but will not freeze.



**MIXING GUIDE**

ProDrill is best suited for clay and silt soil conditions, and the mixing chart below shows the dosages needed for the various soil types. ProDrill is relatively unaffected by pH (safe operating range is between pH 5-10). However, ProDrill hydration can be affected by hard or mineral-laden water. ProDyne is recommended to run in conjunction with ProDrill to ensure consistent results.

**If starting with an empty tank:**

1. Fill tank with water to roughly half of desired capacity
2. Add ProDrill through the top of the tank. The energy of the water filling the tank will be sufficient for agitation and mixing of product.
3. Mix tank for 2-3 minutes for full dissolution

**If adding into a tank already filled to target capacity:**

1. Tank fluid must be moving either via pump or mixing jets
2. Add ProDrill through the top of the tank
3. Mix tank for 2-3 minutes for full hydration

ProDrill is formulated to react with clays. Bentonite is a clay, so adding ProDrill through a hopper where it might contact bentonite on the hopper walls might cause it to flock, creating small clumps of bentonite. ProAction recommends adding ProDrill through the top of the tank for this reason. If a hopper must be used, ProAction recommends adding ProDrill through the throat of the hopper and not letting it contact the sides of the hopper unless it has been cleaned with DrillClean. In the event that multiple large (golf-ball or larger) clumps appear, multiplying the dosage by 1.5x may be required to reach optimum fluid properties.

Are you drilling in **clay**?

add **ProDrill**

<b>LOW</b>	<b>Water</b>	
	<b>Sticky Clay</b>	<b>1 EZB</b>
<b>Swelling Clay</b>		
<b>SOIL</b>	<b>Mixed Sand</b>	
	<b>Fine Sand</b>	
	<b>Medium Sand</b>	
<b>ROCK</b>	<b>Coarse Sand</b>	
	<b>Pea Gravel</b>	
	<b>Pebbles</b>	
<b>HIGH</b>	<b>Cobble Rocks</b>	

*(Density, Permeability, & Grain Size)*