

# POLYMER MIXING EDUCTOR

## INTRODUCTION TOOL

### DESCRIPTION

The POLYMER MIXING EDUCTOR is designed to aid in introducing dry powdered polymers and additives into a drilling fluid, decreasing the time required for mixing by hand and increasing the yield of drilling fluid, polymers, and additives through better shear.

### RECOMMENDED USE

The POLYMER MIXING EDUCTOR can be clamped to the side of mixing tanks or tubs 2-inch hoses (of appropriate pressure rating) can be used to connect from the pump discharge outlet to the feed inlet of the POLYMER MIXING EDUCTOR.

### CHARACTERISTICS

- Accelerates the mixing process
- Improves yield – Reduces lumping and waste
- 6 feet of 1-inch OD clear vinyl suction tubing included
- Mounting clamp included
- Portable and easy to install

### MIXING AND APPLICATION

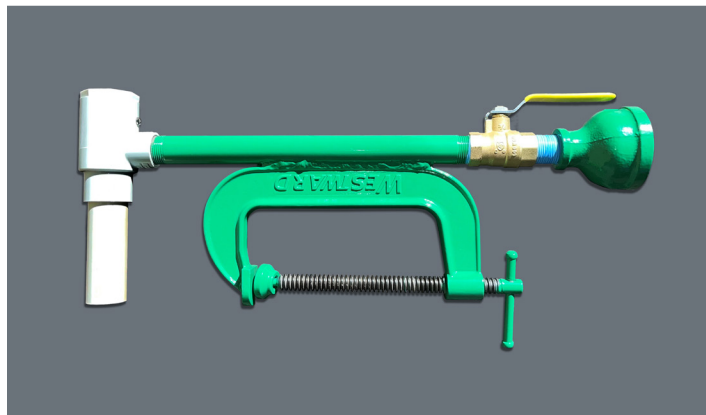
Ensure the pump feed volume is adequate and the POLYMER MIXING EDUCTOR is free of any debris before introducing polymer. Always follow the proper mixing order for drilling fluid. Add the product slowly to prevent plugging. Clean the POLYMER MIXING EDUCTOR before storing.

### INSTALLATION

Proper installation of the POLYMER MIXING EDUCTOR is essential if the best results are to be obtained. The 2-inch threaded fitting should be connected to a water line with a flow rate of 12-40 GPM and a maximum pressure of 45 PSI (optimal performance at 30 GPM or higher). This line should be no smaller than 3/4-inch all the way to the unit.

The unit should be mounted over the mixing tank with enough clearance so the fluid in the tank will not touch the bottom of the POLYMER MIXING EDUCTOR. The long end of the unit (the discharge end) should be placed downward. The top or suction end of the unit is to be fitted with the vinyl hose supplied.

The mixing tank should be at least 3/4 full of water before starting to mix. When the water is turned on, the venturi section of the unit will create enough vacuum to suck the polymer up through the hose and into the top of the POLYMER MIXING EDUCTOR and thoroughly disperse



it into the water in the mixing tank as the tank is being circulated. The polymer slurry should then be agitated for 60 minutes or until the polymer meets the required Marsh funnel viscosities and the entire tank is a homogenous mixture.

#### DRY POLYMER SUCTION - TOP END

Material: 6 feet of 1-inch clear vinyl tubing (included)  
 Nominal lift: 5 feet maximum  
 Nominal lift rate: 1 pound or 45 cubic inches, dry polymer per minute

#### WATER SOURCE - SIDE INPUT

Material: 2" to 3/4" female reducer  
 Requirements: maximum 45 PSI, 12-40 GPM respectively  
 (optimal performance at 30 GPM)

#### WETTED MATERIAL DISCHARGE - BOTTOM END

Material: 1-inch PVC pipe

### PACKAGING

Unit Weight: - ~12.5 LBS

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