

Z ChemGear™ Emulsion Polymer Mix and Feed Systems

MixMate Emulsion Polymer Inversion System

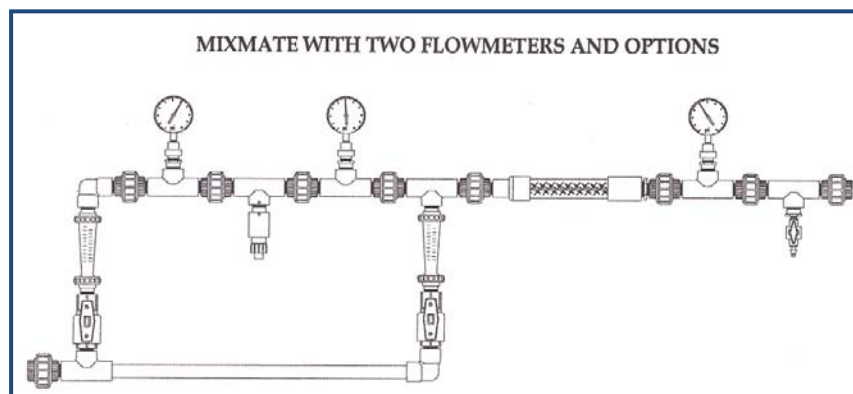
The Z ChemGear™ line MixMate emulsion polymer mixer is a simple, very low cost and effective “on the fly” emulsion polymer makedown system that can readily be put into operation. Capable of making down 2500+ lb per day emulsion polymers, MixMate inverts the emulsion polymer in water which is then either fed directly to the process or to an aging tank.

An entirely manual system, the only moving part is the 110 v. neat polymer feed pump. Putting the MixMate into service only requires plumbing a minimum 10 gpm water source, plumbing the polymer solution discharge to the process injection point, and hooking up the emulsion polymer container to the neat polymer feed pump ... then start making solution by plugging in the pump and turn on the water. Quickly make polymer solution that is nearly as effective as a system with an aging tank that maximizes polymer activation.



MixMate is ideally suited for a wide range of temporary and permanent treatment program solution:

- Dewatering projects located away from a plant.
- Temporary applications such as plant testing.
- For augmenting present polymer makedown rates at peak demand or for additional addition points.
- Rapid response to emergency situations requiring a polymer makedown system.
- A highly economic solution with a solid ROI compared to more expensive makedown system alternatives.
- Very small footprint; just attach the MixMate to a wall or hang on the side of a tote.



MixMate is a very flexible and low cost solution for your treatment challenges.

ZERODAY®

Z ChemGear™ Emulsion Polymer Mix and Feed Systems

BatchMate Automated Small Application Mix System

Taking the MixMate technology to the next level, Zeroday offers an automatic, effective emulsion polymer mix system for < 10 gallon/day, < 85 lb/day (38 liter/day, 38 kg/day) applications. BatchMate has outstanding value for smaller use rate applications compared to most other systems incorporating aging tanks which are impractical. Too often an inadequate mixing system or hand mixing results in high polymer consumption because of inadequate polymer inversion, resulting in high costs.

Customers have reduced polymer consumption by 75% when using a BatchMate versus their former hand mixing practice or an inadequate mixing system. Often, customers obtain a distinctly positive ROI on their BatchMate investment.

The BatchMate design minimizes polymer consumption through proper and efficient polymer solution make down:

- Use of a special high shear mixing chamber to ensure the emulsion polymer is effectively inverted.
- Effectively controlling the polymer solution concentration, allowing consistent application dosing control.
- An integrated small aging tank that provides a minimum 10-15 minutes inverted polymer solution aging time to ensure proper and fully activated polymer solution for highest process treatment performance.

This unit is fully automated which holds madedown polymer solution in the 35 gallon (standard unit) storage aging tank. When the storage tank level reaches low level, the unit makes another batch by sequencing an actuated water valve and neat polymer pump. All done without operator attention.

Built within a self contained polypropylene tank for unit protection and containment, this is a true "plug & play" system. Move the unit in place, hook up minimum 10 gpm (38 lpm) clean plant water source, plug the pumps and controller unit into 110 v. outlet power plumb in the polymer line to the neat polymer pump and connect the polymer feed line to the process. Then start making excellent emulsion polymer solutions.



Zeroday designs MixMate and BatchMate units to meet your specific application needs. Contact Zeroday for more information and to assess the benefits these systems will provide you. Call +1(503) 582-9067 (+1 (877) 582-9067) or email us at www.ZerodayLLC.com.