

Warnings!

These instructions are only intended to show you the set-up of our pump. Do not use until you have been trained on how to properly operate a polyurea pump.

- Wear appropriate safety gear when operating this pump
- Always use the same tanks with similar chemicals. Mixing materials will cause curing inside of the tanks, pumps, and hoses
- Store pump properly according to guidelines

Pump Features

Pump Control Features:

Familiarize yourself with the pump prior to use

- **Power Switches:** Every unit is equipped with two on/off switches. *Ensure both switches are off prior to connecting to power.*
 - **The Main Power Switch** (fig. 1) is located on the main power line coming from the power source and will turn on electronic controls.
 - **The Dispensing Wand Switch** (fig. 2 red arrow) is located on the handle of the dispensing wand and turns on the motor and speed control.
- **Speed Control:** (fig. 2. yellow arrow)
 - This unit is programmed for soft starting to ensure smooth operation and dispensing of material, which means it will take several seconds to achieve maximum speed.
 - *We recommend turning the speed control knob all the way counter clockwise to the 0 throttle position prior to first use.*
 - To increase dispensing rate, turn speed control knob clockwise.

Figure 1



Figure 2



Pump Set Up

Filling Pump:

1. Read the manufacturer's safety data sheet and instructions for the material you will be using.
2. Mix components according to the manufacturer's instructions.
3. After mixing components, pour Part A into Part A tank, and then, pour Part B into Part B tank. (Fig. 1)

Never cross contaminant tanks.

Preparing for Use:

1. Clean off the manifold with the static mixing tip removed. (Fig. 2)
2. Dispense material into a waste container to check for a smooth, air-free flow of both components. Make sure that there are two smooth, consistent streams.
 - a. *If the streams of material are not consistent, check for blockages and clean the manifold accordingly and repeat the previous steps.*
3. Attach a new static mixing tip onto the manifold.
 - a. *If dispensing a cure sample, follow long-term interruptions directions below.*

Work Interruptions:

1. **Short Term** (5 or so minutes): periodically trigger applicator wand to dispense material into a waste container every 30-45 seconds to ensure the material in static mixing tip does not set.
2. **Long Term** (lunch break or cure sample): remove static mixing tip and discard. Pump grease into fittings on the manifold. Upon returning to work, re-install a new static mixing tip.

Figure 1



Figure 2



Pump Cleaning

Materials Needed:

- 8 cups of manufacturer's recommender cleaner
- 4 cups of oil (we recommend vegetable)
- Solvent proof gloves and splash-proof goggles
- Waste buckets
- Rags or Paper towels
- Proper storage container for leftover material

Warnings

- Always clean in a well-ventilated area
- Do NOT clean the pump near open flames or welders
- Wear protective gear
- Dispose of all waste correct and according to local guidelines

Tank Cleaning:

1. Dispose of all remaining material by purging it straight through the manifold without a static mixer attached into a waste container. *Follow manufacturer's guidelines for material disposal.*
2. After emptying, pour 4 cups of cleaner into each tank.
3. Purge through the system, including the manifold to clean it out.
4. Repeat steps 2 and 3 as needed until lines are clean.
5. Verify that all cleaner has been purged from the system.
6. Wipe tanks clean with the manufacturer's recommended cleaner.

Proper Storage:

1. After cleaning, pour at least 2 cups of oil (we recommend vegetable) into each tank.
2. Purge any remaining cleaner from the system using the oil. Leave some oil in the lines, manifold, valves, and pumps for proper storage.
3. Using manifold grease fittings, pump grease into manifold until it comes out of the dispensing ports.