

# Pump Tips

## Test Before Using

Before using the pumps to meter epoxy for a project, meter and mix a small test batch of epoxy to assure the pumps are operating properly and to observe the mixture's curing characteristics under your current working conditions. The mixture should cure to a hard solid over night at room temperature or warmer.

## Ensure Proper Ratios

The resin and hardener containers in your kit will empty at about the same time if you have used twice the number of full resin strokes to hardener strokes, and your pumps are operating properly. If you run out of resin or hardener and have a substantial amount of the other left over, check the pumps to ensure they are operating properly. Contact the Entropy technical staff for further assistance or replace the pump set.

## Operating in Cold Temperatures

Cold temperatures cause a substantial increase in the viscosity of the resin and hardeners, requiring more force to pump the thicker materials. For best dispensing, keep the resin and hardener at room temperature. In cool temperatures, depress the pumps more slowly and allow extra time for pumps to return to the top of the stroke.

## Storing and Cleaning

Pumps may be left on the containers during storage. Store resin and hardener in a dry location at room temperature. Keep containers upright to prevent leaks. After a long storage, pumps may need to be re-primed. Pumps should not need cleaning during regular use. After a long storage, dried resin or hardener may plug the spout opening. If necessary, use a stiff wire to clear the opening. Do not switch pumps between resin and hardener containers. Once a pump has been placed in either a resin or a hardener container, that pump must remain a resin only pump or a hardener only pump to prevent cross contamination.

For detailed information on Entropy products or epoxy handling and applications, contact the Entropy technical staff at 310-882-2120.

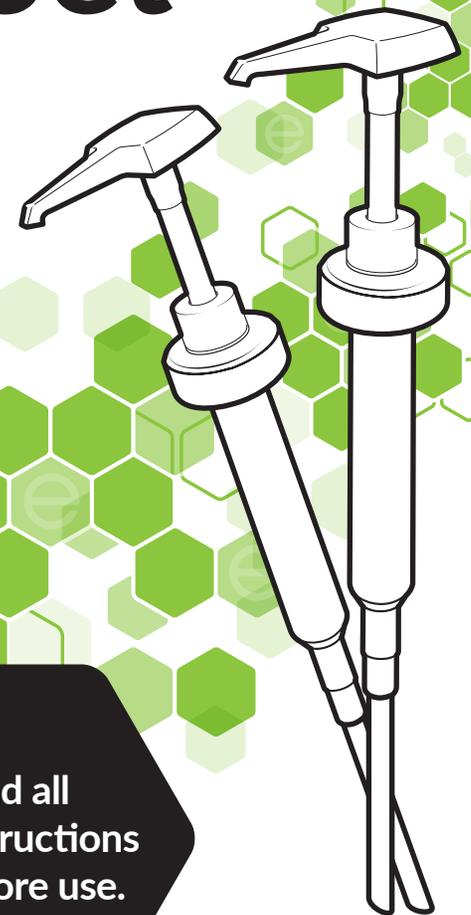


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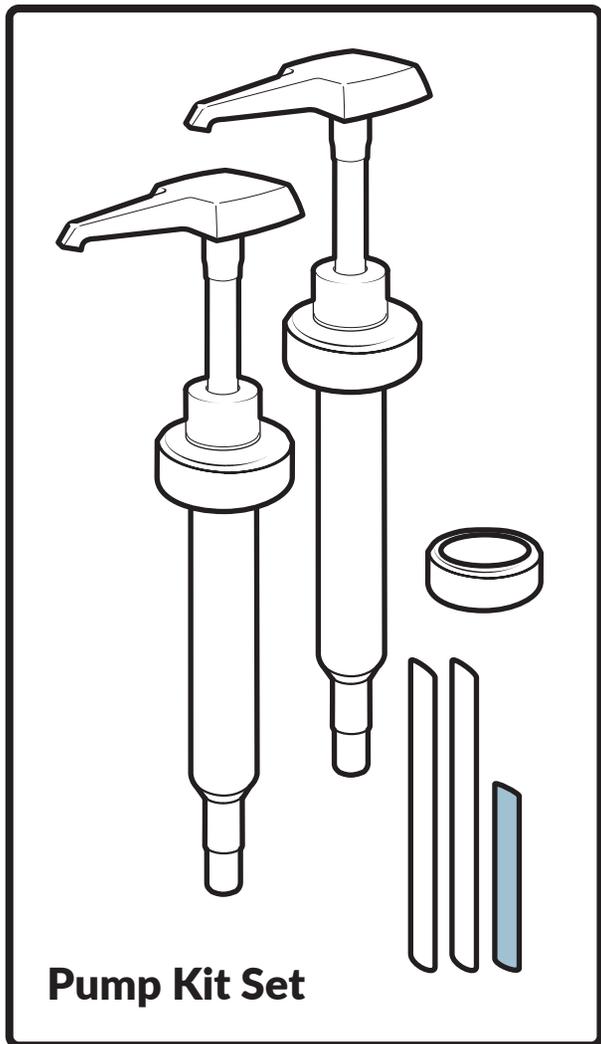


# Pump Set



Read all  
instructions  
before use.

Compatible with  
1 qt., .5 gal., and 1 gal.  
containers



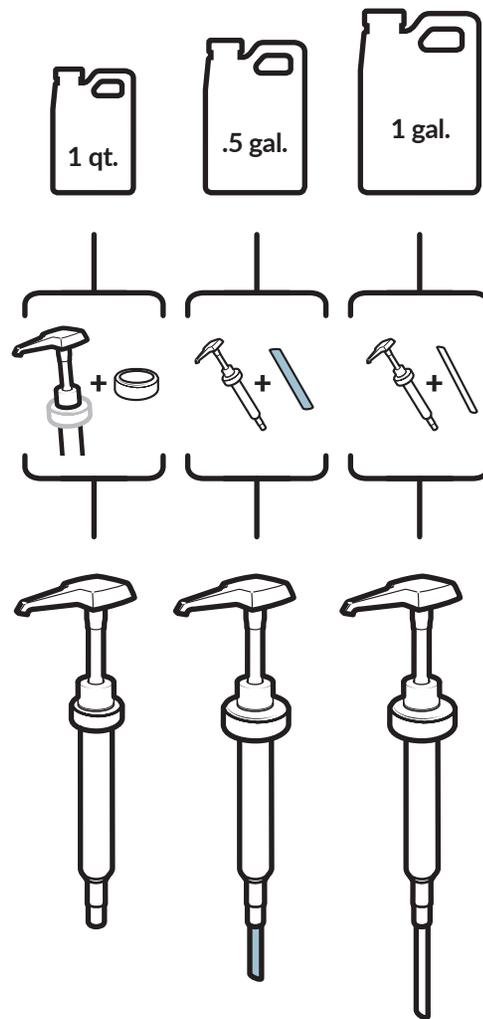
Pumps compatible with these container sizes:



**ONLY use Entropy white-headed pumps.**

**1**

**Assemble and Install Pumps**



Assemble the pumps by replacing the threaded cap or adding an extension tube as shown above for container sizes in your kit. Install the pumps in place of the container lids.

Although the pump bodies are identical, once the pump has been placed in either a resin or a hardener container that pump must remain a resin only pump or a hardener only pump to prevent cross contamination.

**2**

**Prime the pumps**

Place a mixing cup under the pumps when priming to catch any drips.

Prime each pump by pushing the head down until you feel resistance. Release the pump and allow it to return to the top of the stroke. After a short pause, repeat.

The point of resistance should be higher after each stroke until resistance is met at the top of the stroke. The pump is now fully primed and all the air in the pump is displaced with fluid. The primed pump will produce a continuous stream of resin or hardener with a slow steady stroke of the pump.

**After extended periods of rest, the pumps may require re-priming.**

**3**

**Dispensing**

When metering resin and hardener, depress each pump head fully and continuously to the bottom of its stroke. Allow the pump heads to return completely to the top of the stroke. Partial pump strokes will give the wrong ratio.

**PUMP TWO FULL STROKES OF RESIN FOR EACH FULL STROKE OF HARDENER** to meter the proper resin/hardener ratio. Adjusting the ratio will result in an incomplete cure.



**2 PUMPS RESIN  
1 PUMP HARDENER**