

# The LPI Dispensing System

- **Portable**
- **Affordable**
- **Safe**
- **Clean**
- **Simple**
- **Proven**
- **Permanent**



The LPI low-pressure injection system is very affordable, very reliable and requires no special training or skill. This is how it works: Resin is pre-mixed in a disposable plastic bowl, and then pressurized to flood a circuit of plastic tubing connected to a series of porting adapters. Up to 20 ports are injected simultaneously. A pressure of up to 17 psi is maintained until the resin has gelled within the tubing. The adapters, tubing, and bowl are left in place until the resin has hardened, and then disposed of in a cured and environmentally friendly condition.

The results available with high injection pressures are often available at low pressures as well: it simply takes longer. The LPI is ideal for small projects, or unique conditions which prohibit the use of significant pressure. The LPI is ideal for injecting cracks in architectural concrete and stone because low strength capping adhesives such as silicone can be removed without damage to the surfaces.

Because of the very low injection pressure, the resin should have a long working life (more than 30 minutes at 72° F.), and a viscosity of less than 150 centipoise. A shorter working life resin can be used if it has a super low viscosity (less than 100 centipoise) so as to penetrate very quickly.

The dispenser consists of a steel frame with a collar supporting a disposable bowl, a lid, a clamping device to secure the lid, and mounting brackets for the regulator and pressure gauge. Although the unit can be pressurized from any clean air source, an inexpensive 5 gallon volume tank is often preferred due to its convenience.

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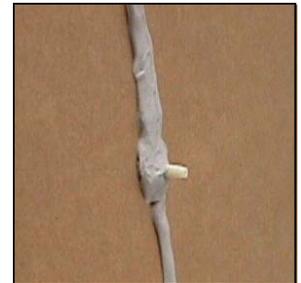
The LPI System uses a two component porting adapter comprised of a pedestal and a tee. The pedestal is secured to the surface over the void. The barbed tee fits onto the pedestal to plumb the tubing.



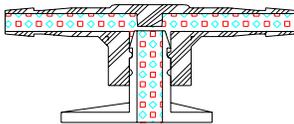
A special tool (M-260) is used to set the pedestals. It holds the pedestal as the epoxy is applied, and protects the opening into the void from oozing epoxy that may otherwise clog it. The M-260 Setting Tool also guides the pedestal to its precise location.



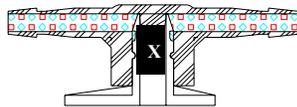
The epoxy capping material is applied over the crack to retain the injected resin. At the same time, additional resin is applied over the base of the pedestal. The epoxy resin is the same for both applications (setting the pedestals and capping or sealing the crack).



After the capping material hardens, the tees are snapped onto the pedestals. A soft plastic tubing is then cut into segments to plumb the ports in series. As much as 20 feet of crack can usually be injected in a single setup. Tees and crosses are used to route the tubing to more than one crack segment. The end of the tubing is drawn through a hole in the lid over the resin bowl of the dispenser, and submerged in the resin. When the reservoir is pressurized by adjusting the regulator, resin flows throughout the plumbing, injecting all of the ports simultaneously.



**OPEN**



**CLOSED**

A unique feature of the dual component adapter is that the flow to a particular port can be closed by pressing the Tee down into a lower detent on the Pedestal. This closes off the flow to the local port, yet allows flow to continue to remote ports. This is useful in the event of a leak at or near a port.

**The LPI System is offered as a kit (A-500) that includes the following items:**

- Dispenser LPD
- Reservoir Bowls(10) LPC
- Pedestals(50) LPP
- Tees(50) LPT
- Jiffy Mixing Paddle P-754

- Tubing(100') T-101
- Setting Tool M-260
- Manifolding Tee(5) P-830
- Manifolding Cross(3) P-831
- Crimp-It(5) P-316

**Lily Corporation**

240 S. Broadway Aurora, Illinois 60505-4205 USA  
 Phone: 630-892-0860 Fax: 630-892-5623 www.lilycorp.com info@lilycorp.com