

Manufacturers of Precision Cleaners and P-80 Assembly Lubricants  
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## P-80® Lubricants are effective for Pump Seal Maintenance

One universal goal of treatment plant operators is to keep operations running smoothly and effectively at all times. While many factors contribute to achieving this goal, one simple way to help reach this objective is to perform regular equipment maintenance. Most plants use a variety of different types of pumps. Maintaining and replacing pump seals on a regular basis helps to ensure that systems continue to function efficiently, as planned.



Replacing standard pump components, such as seals, O-rings, and other rubber parts, can often lead to frustration because the slip resistant nature of rubber makes it difficult to install, cut, remove or manipulate. Repair and installation of rubber parts can take considerable physical effort and time. In addition, improper part alignment or installation can lead to part failure and safety issues.

Using the proper assembly lubricant can turn a difficult chore into an easy task. Many jobs can benefit from the reduced friction and increased safety provided by P-80 Temporary Rubber Assembly Lubricants.

P-80 lubricants are the perfect solution for pump and seal repairs, they have been used for years by treatment plant operators to maintain equipment and replace parts such as seals, O-rings, hoses, grommets, and plugs.

P-80 lubricants enable rubber parts to slide easily into place with minimal force. Once dry, P-80 stops lubricating and parts remain in place, resulting in a tight fit. Since P-80 does not contain silicon or any other persistent ingredients, once dry the slipping action goes away.

### Advantages of using P-80® lubricants:

- Eases installation of rubber parts creating a tight fit.
- Reduces damage to parts.
- Temporary – Once dry the lubrication is gone.
- Alcohol free – will not dry out rubber or otherwise impair its performance.
- Safe and ready to use, requires no mixing.
- Silicon, Petroleum and Solvent Free.
- Compatible with most plastics, rubbers and metals.



P-80 is non-toxic and available in four different industrial formulas, as well as two special formulas that are registered with NSF as H1 lubricants approved for incidental food contact applications. Most P-80 products are biodegradable and all are manufactured in the USA.

**Contact International Products Corporation for assistance in determining which P-80 formula will best serve your needs.** For sales and service in the U.S. call our ISO:9001 certified manufacturing facility at 609-386-8770 or email [mkt@ipcol.com](mailto:mkt@ipcol.com). For sales and service in Europe, call 0208-857-5678 or email [saleseurope@ipcol.com](mailto:saleseurope@ipcol.com). You may also visit our website at [www.ipcol.com](http://www.ipcol.com).

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## CASE STUDY: P-80® THIX Rubber Lubricant Gel Solves many Hydraulic Line Assembly Problems

### **Accomplishments:**

1. Eliminate false positive hydraulic leaks and contamination.
2. Allow easier thread starts and aligned joint assemblies; achieve torque specification.

### **Additional Benefits:**

1. Non-hazardous product
2. Biodegradable
3. Temporary lubrication technology
4. Rubber-compatible, thixotropic & synthetic

### **Challenges:**

A crane manufacturer experienced problems with hydraulic systems; namely, contamination, rolled O-rings, leaks, and line shut-downs because of many false-positive leak detections. Multiple petroleum-based lubricants were used over the years for the assembly of hydraulic hoses and thread starts. While these lubricants eased the assembly of the hydraulic lines and facilitated thread starts, the lubricants, if not applied meticulously, slowed production, increased cost of quality, and increased rework. Over-application of these lubricants caused residue to remain in and around hydraulic lines attracting dirt, contaminating hydraulic systems, fluorescing brightly during black light leak inspections – leading to false positive results, and reducing installation torque over time. When used sparingly, the lubricants caused leaks from rough thread starts, rolled O-rings, friction-related damage, misaligned parts, and low installation torques.

### **Solution:**

A cross-functional leak-prevention team of design and material engineers and hydraulic line assemblers trialed P-80 THIX Rubber Lubricant Gel for assembly of hydraulic lines and coating of threads for wet torque starts. Since THIX is a water-based emulsified thixotropic gel, the volume applied was not critical. Once applied, THIX remained in place regardless of the part's orientation. The gel as a whole reduced assembly friction by 70% thereby eliminating rolled O-rings and misaligned parts. Installation torques was achieved consistently. After assembly, THIX begins to evaporate and loses its lubrication – leaving at most a negligible residue, which will not attract dirt or contaminate the hydraulic system, will not fluoresce, and cannot reduce torque over time.

THIX biodegrades over time, and because it is not petroleum-based, will not swell or soften elastomers. THIX is made from plant-derived, renewable resources and is non-hazardous based on lab tests.

The crane manufacturer experienced an immediate improvement in cost of quality and on-time delivery metrics. THIX has been implemented throughout the entire assembly floor and is currently being trialed at other locations worldwide.

*All P-80 products are manufactured in the USA by International Products Corporation (IPC) and are readily available worldwide through a network of global distributors. Contact IPC for a free P-80® sample kit by visiting [www.ipcol.com](http://www.ipcol.com) or email [sample@ipcol.com](mailto:sample@ipcol.com). P-80 is available for purchase online at [www.ipcol.com](http://www.ipcol.com).*