

Poly Lift



Polyurethane Injection Concrete Lifting

A division of **IWS**

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Slab Lifting & Soil Stabilization



For decades, the terms Slab Jacking and Mud Jacking have been used to define the act of raising sunken concrete. Using traditional methods the results and degree of precision have varied. In many cases, settlement issues are compounded due to the additional weight of the cement-based grout used to raise the slab.

Today, The Poly Lift provides scientific advantages, proven methodologies, and a precise lifting action that can be controlled within 1/8 inch or less of your desired elevation.

Advantages for property owners, facility managers
and government agencies (DOT):

- **Less Time**
- **Less Weight**
- **Less Disruption**
- **Less Cost**
- **Less Environmental Impact**

For purposes of lifting slabs, undersealing and stabilizing soils, Poly Resins has formulated two-component, structural polyurethane.

Once you have stabilized and consolidated the sub-grade, it is time for the Poly Lift process. A rapidly expanding Poly Resin is injected through small diameter holes directly beneath the slab in short bursts. By speeding up the reaction with heat and by controlling the amount of material that goes in beneath the slab, you are able to precisely control how much the slab is lifted.

This procedure requires specialized equipment and a well trained technician. Poly Lift products are designed specifically for this task.

Comparisons:	Cementitious	Poly Lift
<i>Unit Weight</i>	<i>150 PCF</i>	<i>10-12 PCF</i>
<i>Material Set Time</i>	<i>Hours to days</i>	<i>Less than an hour</i>
<i>Impact on Existing Subsoil</i>	<i>Increases overburden stress</i>	<i>Minimal stress</i>
<i>Size of Injection Hole</i>	<i>2" +</i>	<i>3/8"</i>
<i>Preparation of Material Onsite</i>	<i>Mortar mixers, dust control</i>	<i>Material stored in trailer</i>
<i>Clean Out</i>	<i>Wash-out area on site</i>	<i>None required</i>
<i>Shrinkage</i>	<i>Yes (Relative to water)</i>	<i>None</i>
<i>Groundwater</i>	<i>Affects grout composition</i>	<i>Not affected</i>

Eliminate the Cause

Settlement destroys the integrity of concrete slabs and foundations. The root causes are often due to poor compaction of fill materials, erosion, high water content (shrink and swell cycles), decaying organic materials or freeze thaw cycles.

Poly Lift fills voids, consolidates fill materials and eliminates water pathways. All of these functions assist in stabilizing and strengthening supporting soils.

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Foundations