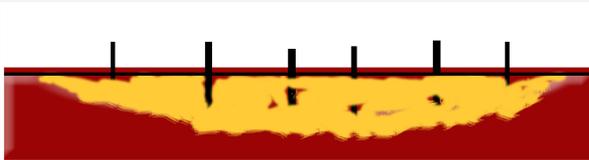




Lift - Seal - Fill - Densify



Injecting SealBoss® 1640 Structural Strength SlabLifter Foam through injection needles into soil cavity under roadway.

SlabLifter Application Technique:

SealBoss® 1640 Structural Strength SlabLifter™ injection systems are designed for concrete raising and soil stabilization applications that are most common in sidewalks, driveways, and residential slabs around the world. For chemical injection raising of slabs, it is necessary to utilize a vigorously reactive structural polyurethane resin. The short reaction times provide immediate results as lifting can be done within an accuracy of 1/8" or less.

1. Wear adequate protective gear and goggles at all times and follow data sheet and SDS instructions.
2. Thoroughly examine the existing parameters under the slab in order to identify exit paths for the foam. A full containment of injection resin is required for best results. It is also recommended to ensure full movement capabilities in the substrate by performing a saw cut through existing joint bonds. This will allow independent movement at the slab joints.
3. Identify the drill hole spacing and depths. SealBoss® recommends 3-4 feet on center spacing while maintaining a distance of 2 feet from the joint and slab edges. Once the 5/8" drill holes are made, a soil condition assessment can be performed through the utilization of a penetrometer (A penetrometer measures soil density by charting the number of blows required to drive the device into the soil at any given depth. An increased number of blows correlates to more dense soil). When the soil assessment is completed, you are ready to determine injection depths.
4. For most small slab applications, SealBoss® 1640 Structural Strength SlabLifter™ can be injected just under the slab and filling the primary sub-surface void in order to lift the slab. This is achieved through the usage of a pneumatic tool and cartridge systems. The plastic static mixer is inserted into the drill hole. Drill hole diameter is dependent upon the diameter of the mixer.
5. Material consumption varies greatly from application to application as it depends on the condition of the sub-surface and soil compaction conditions. While the product exhibits a 20x free rise expansion, confined spaces under slabs typically

show a 6x expansion due to increased density of material being injected at high pressures. For conservative estimations, it is advised to calculate the total volume between the top of the slab and the level surface of the intended level. Convert this volume to gallons with 128 cubic inches / gallon. This is material estimate for the project.

6. In the case of large slabs, applicators must use a primary and secondary injection procedure that involves a primary injection for void filling purposes to a depth of 4-6 feet followed by a secondary injection for lifting purposes. These applications are only recommended with heavy duty industrial pumping systems that feature heated lines and outputs of 1,000psi and 1GPM minimum.

7. SealBoss® 1640 Structural Strength SlabLifter™ systems are designed for slow and steady lifting of concrete slabs. Inject material for 10 second intervals, observe the substrate, and repeat until 80% lift is achieved. Be sure to calculate void volumes and material consumptions prior to application. Perform as planned, and perform subsequent cycles of injection as needed. Finish final 20% lift as needed being sure not to over lift.

8. Small slabs are defined as a standard sidewalk slab from joint to joint. Most specifications refer to this as 4-6" in thickness and 6' in length. For larger slabs, SealBoss® Corp. recommends applying with pumping equipment rather than cartridges to increase density and expansive forces.

9. Alternatively, a method has been implemented to lift slabs to level with heavy duty forklift through the use of U-beam anchored into the concrete with anchoring bolts. The forklift can then lift the slab to level, with SealBoss® 1640 Structural Strength SlabLifter™ injected under the slab to fill the void. Where this application is possible, SealBoss® 1640 Structural Strength SlabLifter™ can be injected simply with the **SealBoss® P3003-2C Injection Pump** modified to 1:1 ratio.

SlabLifter Benefits vs. Conventional Lifting Methods

- Lightweight product minimizes loads and stress on existing surface
- Quick cure products provide minimal downtime and immediate results
- Smaller injection holes provide minimally invasive solution



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