



# AP Lift 475

Two component, structural polyurethane foam.

**Description** Two component, high strength, high density, hydro insensitive structural polyurethane foam. 4.5 to 5.0 pounds per cubic foot. Also available in a slow version.

**Applications**

- Stabilizing soil.
- Lifting concrete slabs.
- Filling voids.
- Supplemental sinkhole remediation.

**Advantages**

- High strength.
- Low viscosity.
- Works in wet environments - displaces water.
- Bonds with soil and concrete.
- Traffic ready in 15 minutes.
- Closed cell.
- Certified to NSF 61-5 (Approved for contact with drinking water).



**Certified to NSF 61-5**  
Approved for Contact  
with Drinking Water

**Packaging** 100 Gallon Units, 500 Gallon Units

**Physical Properties - Cured**

Compressive Strength	(ASTM D-1621)	100 p.s.i. or 14,000 p.s.f.
Tensile Strength	(ASTM D-638)	100 p.s.i
Expansion	(Unconfined)	14-16 times
Density	(ASTM D-1622)	4.5 to 5.0 lbs / cubic foot
Shrinkage	(ASTM D-1042/D-756)	None

Properties will vary depending on application conditions. Confined foam strength is typically higher.

**Reaction Time @ 77° F / 25° C**

Initial Reaction Time	20 seconds
Tack Free	45 seconds
90% Full Strength	15 min

**Material Prep** Material should be at least 50° F (10° C) to be able to pump out of drums.

**Mixing** Pre-mix "B" component using center hole on drum and air or electric drum mixer. Mix ratio is 1:1 and should be used with plural component pump.

**Equipment** Two component proportioner with material heaters, heated hoses and impingement style gun. Call our tech service department for details.

**Accessories** MixMaster Gun, AP Flush 121, AP Flush 125, AP Soak 130

**Personal Protection** Safety goggles, face shield, impermeable gloves, long sleeves and pants. Use in well ventilated areas. Open doors and windows. In confined areas use mechanical ventilation to keep vapor concentrations low. Prevent direct contact with skin and eyes. See MSDS.

LIFT SLABS STABILIZESOIL

<b>Clean Up</b>	Flush injection equipment with AP Flush 121 when necessary. Remove cured material from metal components by soaking in AP Soak 130. Clean off of skin with soap and water.
<b>Environmental Protection</b>	Cured material is chemically inert and safe to dispose of in landfill. Cleanup any spilled liquid resin and place in a suitable sealed container. Dispose of in accordance to applicable environmental regulations.
<b>First Aid</b>	<b>Eye Contact:</b> Immediately flush with large amounts of water. Seek medical attention. <b>Inhalation:</b> Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. <b>Ingestion:</b> Seek medical attention immediately. <b>Skin Contact:</b> Wipe off contaminated area and wash with soap and water.
<b>Limitations</b>	Low temperatures will increase viscosity making product more difficult to pump. Low temperatures will slow down the reaction time. Keep lid tightly closed.
<b>Storage</b>	Store between 50° - 80° F (10° - 26° C).
<b>Handling</b>	Keep lids on tightly to prevent moisture from entering containers. Avoid direct contact with product. Be careful when opening as pressure may build up inside containers.
<b>Limited Warranty</b>	Alchemy Polymers warrants this product to be free from manufacturer's defects and to meet all published properties on current Technical Data Sheet for a period of one year if used according to published instructions and within the shelf life. The user is responsible for determining suitability for intended use and assumes all risk. No other warranties expressed or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Purchaser's sole remedy is limited to the purchase price or product replacement exclusive of cost of labor or other materials.
<b>Latest Information</b>	Before each use read latest Technical Data Sheets, Material Safety Data Sheets, and instructions available at <a href="http://www.alchemypolymers.com">www.alchemypolymers.com</a> . Nothing contained in any Alchemy Polymers materials or verbal instruction relieves the user of the obligation to read and follow all usage instructions and warnings for each product contained in the latest Technical Data Sheets and Material Safety Data Sheets. All information given by Alchemy Polymers about Alchemy Polymers products and procedures is given in good faith based on our current experience level and knowledge when materials are properly stored, handled, and applied. Jobsite conditions always vary, and for this reason Alchemy Polymers assumes no liability for the provision of such information or instructions. Neither shall any legal relationship be created by the provision of such information.
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