



# POLYFIL™

**FLAT-PROOFING**

**THE PROOF IS ON THE INSIDE**

**Converting Air-Filled Tires  
Into Flat-Proof Urethane  
Filled Tires**

**Manufacturing Quality Liquid Polyurethane  
and Industry Specific Tire-Fill Equipment**



Customer Service: (866) 4-POLYFIL

[www.polyfilusa.com](http://www.polyfilusa.com)

[www.polycoatusa.com](http://www.polycoatusa.com)





# STATE-OF-THE-ART MANUFACTURING

Polycoat Products has manufactured high performance polyurethanes for nearly four decades. Our pioneering technology, effective leadership, innovation, and forward-thinking have resulted in many of our systems being patented. Polycoat's unwavering dedication to R & D, quality control and continuously improving our state-of-the-art manufacturing facilities, drive our high standards and ensure our deep customer relationships.



The Polycoat Facilities in Arlington, Texas and Santa Fe Springs, California boast 22 acres of prime industrial property with 100,000 sq. ft. of office space and 400,000 sq. ft. of manufacturing space. Despite economic hardships globally, Polycoat continues to grow and expand operations signifying the superior quality of our products and dedication to the industry.

At Polycoat, we provide our customers with high quality tire-fill products and equipment. The chemistry of our products are two-component, reliable and economical liquid polyurethanes.

Poly-Fil™ was developed for converting air filled tires into a urethane solid filled tire maximizing vehicle operating efficiency and minimizing downtime associated with flat tires. Poly-Fil™ virtually eliminates flats, blowouts, and tire damage caused by improper daily maintenance which is required by standard air filled tires. Poly-Fil™ filled tires will also never need to be filled with air and will never be under-inflated, thus maximizing tread life and tire performance in a wide range of conditions. Poly-Fil™ 30 filled tires can operate at speeds of 35 MPH continuously and at speeds up to 55 MPH for a maximum of 4 hours. Poly-Fil™ was also developed to provide a softer-ride with less fatigue on vehicles and their parts, as well as the driver. Poly-Fil™ will also give better traction and handling to the vehicle compared to conventional air filled tires.

Poly-Fil™ exclusively offers the *Maverick™ Grinding System*, the *HULK II OEM Granulated Fill Pumping System*, the *Maverick™ AM Granulated Fill Pumping System*, *Maverick™ Recycler Granulated Fill Pumping System*, and the *NEW Maverick EV Electric Virgin Fill Pumping System*. In addition to new machines, we can upgrade, re-manufacture, repair, or repurchase currently owned machines. We also offer repair parts and services for not only our machines, but most of the existing tire-fill machines in use.



**POLYCOAT  
PRODUCTS**  
A Division of American Polymers Corp.

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# POLY-FIL™ EQUIPMENT

## MAVERICK™ EV ELECTRIC VIRGIN FILL PUMPING SYSTEM

The *NEW Maverick™ EV Electric Virgin Fill Pumping System* is an upgrade over pneumatic pumping systems. It provides faster fill rates, up to 40 lbs per minute, easier cleaning, reduced solvent usage, and improved reliability. The Maverick EV has simple speed selection switches and push button start and stop controls. The 3 speed selections are customizable for each dealer's requirements. Digital displays are provided for A-Side, B-Side, and System Pressures providing improved process information for your tire-fill technician.



## MAVERICK™ RECYCLER GRANULATED FILL PUMPING SYSTEM

The *Maverick™ Recycler Granulated Fill Pumping System* incorporates several improvements to the original AutoFil, including a belt drive system that is quiet and helps protect the torque hub from damage and increased regrind output on the grinder portion of the system. On the granulated fill pumping side, we have increased the fill pumping rate, added a system pressure digital display and added a bushing to support the end of the injector screw, increasing screw and barrel life. We have also added our exclusive "Quick Clean" lower hopper.



## MAVERICK™ GRINDING SYSTEM

The *Maverick™ Grinding System* is assembled by Poly-Fil™ within Polycoat's Arlington, Texas production facility. It was designed to be paired with the *Maverick™ AM Granulated Fill Pumping System*, however the bulk bags of regrind that it makes, can be used with other fill machines utilizing bulk bags. The design improvements include a belt drive system that is quiet and helps protect the torque hub from damage, increased regrind output, and an auger system for filling bulk bags.



## MAVERICK™ AM GRANULATED FILL PUMPING SYSTEM

The *Maverick™ AM Granulated Fill Pumping System* was designed with input from tire-fill dealers and their tire-fill technicians. Major changes incorporated include decoupling the grinding of the reclaimed tire-fill process from the mixing and pumping system, bulk bag conditioning paddles, increased pumping rate, system pressure display, A-Side recirculation valve, and exclusive "quick clean" lower hopper.



## HULK II OEM GRANULATED FILL PUMPING SYSTEM

The *HULK II OEM Granulated Fill Pumping System* is available exclusively through Poly-Fil™ and Polycoat Products. It was developed for the demanding production required by the OEM Tire Mounting and Filling Facilities. The *HULK II* is available in 460 VAC 60 Hz 3 phase power and 380 VAC 50 Hz 3 phase power configurations. The base model will process oil based tire-fills with rubber crumb OR tire-fill regrind. Upgrade model is available for running both water based and oil based fills. The *HULK II* utilizes a HMI touchscreen to facilitate machine operation and provide the operator with a real-time display of key process parameters. 5 mix ratios are available with a maximum fill rate of 40 lbs./Min.





# POLY-FIL™ PRODUCTS

## POLY-FIL™ AQUA Shore A 30 Durometer

**Poly-Fil™ Aqua** is a two-component system consisting of a pre-polymer (Side-A/ISO) and a water-based (Side-B/CAT). It is more environmentally friendly with less carbon footprint in the production process. It is specifically formulated as a flat-proof polyurethane fill to be blended with up to 40% rubber crumb for exclusive use on slow moving equipment (up to 5 MPH).

### Typical Uses:

- Aerial Work Platforms
- Boom Lifts
- Slow Moving Equipment

## POLY-FIL™ 30 Shore A 30 Durometer

**Poly-Fil™ 30** is a two-component system consisting of a pre-polymer (Side-A/ISO) and a polyol blend (Side-B/CAT). It fills the needs of most applications where tire flat-proofing is needed. This product may be run at speeds up to 55 MPH for 4 hours. This is a reliable and economical material that will run all day long at 35 MPH.

### Typical Uses:

- Amusement Parks
- Construction
- Factory Vehicles
- Military
- Street Sweepers
- Earth Moving Equipment
- Steel Mills
- Sea Ports
- Mining Equipment

## POLY-FIL™ 22 Shore A 22 Durometer

**Poly-Fil™ 22** is a 2-component system consisting of a pre-polymer (Side-A/ISO) and a polyol blend (Side-B/CAT). It is designed to be used for filling/flat proofing OTR Tires. Poly-Fil™ 22 rides slightly harder than Poly-Fil™ LP. It has a little less deflection which results in less heat build up while still providing a soft ride.

### Typical Uses:

- Hand Carts
- Lawn Mowers
- Tractors
- Loaders
- Wheel Barrows

## POLY-FIL™ LP Shore A 10 Durometer

**Poly-Fil™ LP** is a two-component system consisting of pre-polymer (Side-A/ISO) and a polyol blend (Side-B/CAT). It is excellent for applications requiring a much wider footprint for flotation type tires that need a soft ride for the equipment and operator.

### Typical Uses:

- Golf Course Equipment
- Farm and Agriculture Equipment
- Skid Steers
- Transfer Station Loaders

## POLY-FIL™ HP Shore A 52 Durometer

**Poly-Fil™ HP** is a two-component system consisting of a pre-polymer (Side-A/ISO) and a polyol blend (Side-B/CAT) Poly-Fil™ HP is made for heavy-slow moving equipment where no deflection is wanted or needed. Stratocranes and high reach equipment are ideal applications for Poly-Fil™ HP where stability and safety are paramount.

### Typical Uses:

- Cranes
- Steel Mills
- Sea Ports
- Military
- Mining Applications
- Man Lift (Essential for Safety)

