

Foam Energy Inc.

WHAT IS A POLYURETHANE SPRAY FOAM SYSTEM?

Polyurethane foam is produced by a chemical reaction of a polyol and an isocyanate, in the presence of catalysts and other additives. The result is a rigid plastic that expands during the curing process and becomes a seamless layer of closed cell foam.

The "system" includes preparation of the substrate, as well as application of the foam and elastomeric coating. This coating produces a weather resistant surface that can be walked upon for normal maintenance.

What are 10 advantages of Polyurethane Spray Foam?

1. It's Versatile

Polyurethane foam can be applied to surfaces with irregular shapes and penetrations. Applications include tanks, pipes, cold storage rooms and flotation devices. It's especially suited for roofing, as many applications can be made over the existing roof. This can eliminate the need for costly tear-off of the old roof.

2. It Stops Leaks and is Weather Resistant

Polyurethane foams form monolithic, self-flashing surfaces which effectively seal against leaks. Further protection comes from the weather resistant, elastomeric coating applied over the foam. The foam can be sprayed with slope drains, facilitating water removal.

3. It Adheres to Most Surfaces

A seamless layer of foam is fully adhered to the substrate--horizontal or vertical--and withstands high wind stresses.

4. It Reduces and Simplifies Roof Maintenance

The applied polyurethane foam system usually requires no maintenance. If damaged, caulking is sufficient for repair in most cases.

5. It Provides Superior Insulating Efficiency

Polyurethane foam is the most efficient form of thermal insulation available. The systems usually pay for themselves in 2 to 6 years in energy savings.

6. It reduces building movement

By placing the insulation on the outside, the foam system reduces building movement and thermal shock.

7. It's lightweight

Complete polyurethane foam systems are typically many times lighter than tar and gravel roof systems. When applied to an existing roof, the loose ballast removed usually weighs more than the replacement foam system. This results in the new roof being lighter than the original.

8. It's UL listed

POLYTHANE SYSTEMS' Spray Foams are listed under UL 790* and UL 723*. UL 790 roofing systems are listed Class A over non-combustible decks and Class B over combustible decks.

9. It's Asbestos and Formaldehyde Free

Our foams contain absolutely NO asbestos or formaldehyde.

10. It's a Proven Roofing and Insulating System

SPF systems have been applied successfully **for over 45 years.**