



# Roof Restoration and Waterproofing

## Featuring: LPG™ Proportioner

**Project:**

Residential Roof Restoration  
Insulation and Waterproofing

**Location:**

Des Moines, WA

**Owner:**

Private Residence

**Applicator:**

Pacific Coatings

**Coating System:**

Envelo-Seal™ 2.7 lb. Roofing Foam  
Aquaseal-UB III™ Polyurea Coating  
SPI's LPG™ Proportioner

**Total Area:**

1500 sq. ft.

**Date Completed:**

September 2010

**PROBLEM:**

A Northwest home owner's fifteen-year-old spray foam roof was deteriorated and in desperate need of repair. The home owner urgently needed to restore the roof with not only a long-lasting, waterproof roofing solution, but one that would also help to lower their monthly energy bills. To prevent the possibility of more serious roof damage, any fix would have to quickly be in place before the upcoming rainy season.

**SOLUTION:**

The home owner evaluated numerous roofing system options including torch-down modified bitumen sheet membranes, single-ply EPDM liners, metal panels, silicone and acrylic coatings.

After carefully considering each option, the home owner decided to use SPI's Synergy Series Envelo-Seal™ 2.7 lb. spray foam and Aquaseal UB-III™ polyurea membrane roofing systems. The decision was based on the spray foam's superior thermal resistance to temperature extreme and the polyurea

coating's seamless membrane, with water and abrasion resistant characteristics. In addition, the ability to apply the Synergy Series spray foam over the existing foam roof reduced labor cost and allowed the home owner to take advantage of the combined R-value (thermal resistance) of the old & new spray foam. The LPG's™ lightweight, ultra small footprint also provided a cheaper equipment deployment option and reduced the work crew size.

The applicator power swept the surface and used an air blower to remove debris. Then one to two inches of Synergy Series Envelo-Seal™ spray foam was applied. Finally, with the LPG™ Double-Up feature, the applicator was able to quickly switch over to the polyurea product, and spray 50 mils of Synergy Series Aquaseal UB-III™ to waterproof the roof.

**RESULTS:**

The home owner now has a leak-free, sustainable roofing system that will provide energy savings for years to come.



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