



# Polyurethane Foam Coatings Restoration Case Study

This polyurethane foam roof was installed over ten years ago. On average, most of these type roofs have 1 to 2 inches of foam sprayed onto an existing roof substrate such as a built up, modified bitumen, or metal roof. They are then coated with an acrylic, silicone, or urethane roof coating. Polyurethane foam is a great roof system, but must be coated every ten years to protect it from the sun's harmful UV rays.

The WeatherStar Coating system requires the approved Dealer to clean the top surface of the roof with 1,500 to 2,000 psi of pressure. We do not recommend heavy power-washing in order to not damage the current coating system installed on the roof. We do recommend a detergent such as TSP to clean any heavy residue off the roof surface.

The next step is to cut out any damaged foam and spray additional foam in the damaged areas to match the current foam system. It is especially important to cut out any areas where water has saturated the system. If there are only small blisters, these may be cut out and patched using a polyester fabric and one of our top coats to seal the area. American WeatherStar always recommends a moisture survey on these re-coats to ensure a successful job.

After all areas of concern are addressed, the WeatherStar Coatings Fabric Bond 930 was applied to the entire roof area to ensure that our top coating will adhere to the current system. A bonding primer is not always necessary, but we had adhesion concerns on this roof. AWS Bonding Primer 905 and SBS Primer 950 are also suitable adhesion primers.

Finally, two coats of Silicone 410 were sprayed on the roof surface to form a seamless, bright white membrane to protect the foam from UV rays for many years to come. Other options on a flat roof include our Urethane 520. If the roof has enough slope and drains water, any one of the American WeatherStar acrylic coatings will work as well.

\*\* If your previous foam and coatings project used silicone as the top coat, Silicone 410 must be used to restore your roof as nothing will stick to silicone except for silicone.

For more information, see our detailed applications specifications on this system, or call American WeatherStar at 800-771-6643.



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