

**PROJECT SPECS****Surface type:** Metal**Size:** 21,000 sq. ft.**Age:** Unknown**Location:** Louisville, KY**Industry:** Shipping & Freight**Solution:** Foam-Gard SPF**PRODUCTS**

- Spray polyurethane foam
- High-Solids Silicone 412

## The Foam-Gard system brought this “Frankenstein” roof back to life.

**RESEARCH**

This metal roof in Louisville, Kentucky required restoration primarily for addressing small leaks, deteriorated materials, and damaged gutters and z purlins. The building owner had previously made multiple attempts to fix the issues with no success—the roof consisted of 3-4 different metal profiles all with different levels of corrugation, making it difficult to properly connect the existing roof to other panels, areas, and expansion joints. Additionally, the roof already had multiple types of repair coatings previously applied to it including asphalt, urethane, silicone, acrylic—all of which were rushed and not given proper prep work to ensure correct installation and proper adhesion. It was truly a Frankenstein’s monster of a roof!

The installing contractor chose the Foam-Gard system as the solution for this roof. Foam-Gard is specifically formulated to provide a durable air barrier for a variety of roof types.

**PROCESS**

The installing contractor began by giving the roof an in-depth cleaning. Any coating job should begin with roof prep, but because the roof had previously been neglected in terms of prep work, the contractor made sure to properly pressure-wash and grind away old mastics. Though it was a slow process, doing so ensured proper adhesion of the 3 lb. polyurethane foam.

After installing a layer of high-density spray polyurethane foam, two coats of High-Solids Silicone 412 were applied to the roof. The base coat and top coat helped create a seamless foam system that ultimately tied all of the previously-installed differing metal panels together.

**RESULT**

After receiving the Foam-Gard system, the roof now has an attractive, watertight finish. The two coats of High-Solids Silicone 412 will keep the building occupants dry and insulated for many years to come.

The following photos show the roof before, during, and after the project.

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Aerial View



Street View



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Base roof



Base roof



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Prep phase



Prep phase

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Spray foam



Spray foam



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Base coat



Base coat

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Top coat



Top coat