

Insulated Roofing Contractors: Loudon County Schools

Installer: **Doug Beutel**

Location: **Loudon, TN**

Type of Job: **Silicone Coated SPF Roofing**

Square Footage of Job: **290,297**

Equipment Used: **Gusmer 2035, Graco 45-1 coating pump**

Number of people needed for the Job: **crew of 9**

Number of days required by the Job: **5 months**

Special Requirements: **Poor outdoor air quality in East TN Valley**

Foam and coatings used: **WDG 3009-3 Roof Foam, WDG HSS 535 Solvent Free Sil**

Project Description: Scarify and tear-off existing ballasted foam roofs. There was also some small BUR and EPDM roofs, and 40,000 feet of re-coat. Special attention was given to the roof terminations, which were in bad condition. An additional inch of SPF was applied over all scarified foam and solvent-free silicone was applied in 2 coats with ceramic granules in the top coat. Roofs were brought back to warrantable condition.

Benefits of using Foam: Loudon County Schools needed to replace their foam roofs without adding to the existing outdoor air problem present in the East TN Valley. By utilizing WDG's 535 Solvent-free Silicone, IRC reduced the amount of hydro-carbon petro-chemical solvent being released into the air by approx. 1,200 gallons or 8,300 lbs. This was welcomed by the school administration, especially considering an outdoor air quality monitor is located on one of the school roofs. IRC provided renewable, sustainable roofs for the school for the long term and WDG offered an environmentally responsible product to reduce VOC air contaminants in the region. In lieu of constant budget restraints, silicone coated SPF will provide low life-cycle costs for the county moving forward, and the administration believes in SPF roofing for energy savings and seamless, leak-proof performance.



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Category: Roof Foam > 40,000 sq. ft.

