

Sadler Coating Systems: Louis Schaal Home Addition

Installer: **Scott Sadler, Blake Sadler, Dennis Vandewater**

Location: **Belmond, Iowa**

Type of Job: **cavity wall, vaulted ceilings and floor**

Square Footage of Job: **2100 square feet**

Equipment Used: **Gusmer 20/35 Pro with GX7 spray gun**

Number of people needed for the Job: **3**

Number of days required by the Job: **6**

Special Requirements: **scaffolding, fresh air respirators**

Foam and coatings used: **BASF 2.0 lb. winter reactivity**



Project Description: New Addition Planning: By late fall of 2008, when the Schaals began planning for their new 2100 square foot home addition, they were determined to avoid any pitfalls such as wall condensation, potential mold, air infiltration and expensive heating / cooling bills. After reading and researching several types of insulation products, the Schaals (with affirmation by the general contractor) determined that closed cell spray polyurethane foam best suited their requirements. Work was scheduled to begin in just two weeks. The in-floor heating system had already been installed and was working, so satisfying the temperature requirement for the spray foam application was a plus starting the mid winter project. Specifications: 1. Spray 4 inches of foam (R-26) to all exterior walls (including garage since the master bedroom was located above). 2. Spray 6 inches of foam (R-40) to the kitchen / dining vaulted ceiling and the upstairs gambrel ceiling and walls. 3. Garage ceiling received 3 inches of foam as it also served as the floor for the upstairs master bedroom. One full day for 3 men was required to perform all the necessary masking of windows, outlets and particularly the concrete floors. The general contractor insisted that the new concrete be protected from spills, overspray, or stains since the concrete floors were to be stained and custom finished. Four days were spent for three men to spray the foam. Scaffolding was used to access the vaulted ceilings. Two men traded off on the spray gun and moved staging while the third trimmed foam as necessary. A total of 6500 lbs of foam chemicals was applied. The final 6th day was spent tearing down staging and cleaning up from application.

Benefits of using Foam: The Schaals and general contractor are extremely pleased with the qualities of spray foam sealing all cracks and penetrations for a complete air seal while providing a superior vapor barrier. As to saving money? The original home utility bill ran around \$190.00 / month before adding on the addition. With the new addition combined with the original home (using 2 meters) the bill now runs \$230.00 / month for the now 4000 square foot home.



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