Industry Excellence Awards
Category: Roof Foam > than 40,000 ft sq.

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.
Installer: Jim Taylor
Location: Fort Drum, NY
Type of Job: Air Barrier (sprayed from exterior)
Square Footage of Job: 190,000
Equipment Used: Graco 20/35 Pro, Graco Fusion Gun
Number of people needed for the Job: 3
Number of days required by the Job: 55
Special Requirements: Daily Pull-Test for Adhesion, GenieG60 Boom Lift
Foam and coatings used: CertainTeed Certa Spray 2 lb. Closed Cell Foam

Project Description: Installation of air barrier on all exterior walls of buildings including install of thru-wall flashing. Airseal of knee-wall areas in attic. This project began in Summer of 2009 and wrapped up in Fall of 2009. The crew consistently monitored the daunting Northern New York weather to be certain cold, rainy or even snowy days were not going to stop progress. While spraying from outdoors and accumulating uncontrollable overspray, the team had to make all other contractors aware that vehicles had to be kept out of the way. The exterior spraying took place from a Genie 60 ft. Boom Lift. With a large scale job as it was much communication had to be done with other contractors as well as the General Contractor on proper scheduling and planning to keep all phases in the works. A daily pull test was done on the foam to insure the SPF was getting good adhesion to the substrate.

Benefits of using Foam: For its superior air-sealing properties and added structural integrity.

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
**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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**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

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**2010 SPFA Industry Excellence Awards**

Category: Residential Wall Foam
Installer: Frank Kriews  
Location: Berea, OH  
Type of Job: Foam Roof  
Square Footage of Job: 6,000  
Equipment Used: Attached  
Number of people needed for the Job: 8  
Number of days required by the Job: 7  
Special Requirements: Noise from roofing operations had to be kept to a minimum; roof near parking garage

Foam and coatings used: Gusmer H-40 foam porportioner, Graco 45:1 Bulldog coating rig, Silver Eagle Robotic Applicator equipped with Computerized Auto-slope Technology, 19 ton Simon Stinger Crane, Guzzler Industrial Vacuum Truck

Project Description: The Ohio Turnpike, officially named the James W. Shocknessy Ohio Turnpike, is a 241-mile toll road running through northern Ohio. It is part of the U.S. Interstate Highway System and maintained by self-generated income. The Ohio Turnpike Commissions Administration Building is located in Berea, Ohio, adjacent to the Ohio Turnpike. Early this year, the commission decided to reroof the buildings south wing. The existing 15- to 16-year-old roof system had developed two persistent leaks. The Ohio Turnpike Commission asked West Roofing Systems to develop a comprehensive long-term roofing solution that would provide energy savings, be as environmentally responsible as possible and allow for continued facility operations. The existing 6,000-square-foot roof system consisted of a metal B-type deck, an average of 3-inch-thick tapered expanded polystyrene insulation system and ballasted EPDM membrane. A three-person crew removed the existing river rock ballast. The ballast was left on-site and will be used by the Commissions landscaping crew. The EPDM membrane was cut into manageable sections and placed in crates for transport to the recycling facility. The amount of EPDM that was recycled and diverted from a local landfill was about equal in volume to a full-size family sedan. After removal of the ballast and membrane was complete, an eight-person crew mechanically fastened a 1/2-inch-thick high-density wood fiberboard to the existing. Next, crew members installed a 2 ½-inch-thick layer of WDG 3009-3 Soy Spray Polyurethane Foam (SPF). Over each day of SPF application, we installed a 12-mil-thick base coat of WDG HSS 540 R2 Solvent-Free Silicone Coating containing 16.5 percent recycled EPDM. Completing the installation, we installed a 13-mil-thick topcoat of the same coating and broadcast ceramic roofing granules at a rate of 40 pounds per square before the topcoat cured. Using the solvent-free silicone coating prevented the release of about 1,000 pounds of hydrocarbons into the environment and used more than 300 pounds or 1,500 square feet of recycled EPDM.

2010 SPFA Industry Excellence Awards  
Category: Roof Foam < than 40,000 ft sq.
Homeway Homes: Solar Decathlon Gable House

Installer: Royce Schieler  
Location: Champaign, Illinois  
Type of Job: cavity wall, ceiling, floor  
Square Footage of Job: 600  
Equipment Used: Graco E30  
Number of people needed for the Job: one  
Number of days required by the Job: two  
Special Requirements: none  
Foam and coatings used: NCFI / Insulstar

Project Description: Homeway Homes is a modular home manufacturer located in Deer Creek, Illinois. Homeway has been a maverick in the modular industry by focusing its building practices around energy efficiency. Homeway uses closed cell spray foam in the walls and ceilings of 100% the structures it builds because of its superior insulation and structural qualities. The company realized that spray foam has unique benefits to modular construction in regard to providing a virtually stress-crack free building which is an inherent challenge for modular homes when considering the rigors of transporting modular units hundreds of miles to the customers building site. Closed cell spray foam also is the best insulation on the market today because it completely eliminates the forces of air infiltration, air intrusion, convection, moisture and other forces that regular insulation cannot. The University of Illinois partnered with Homeway Homes to build their "Gable House" for the Solar Decathlon competition. The Solar Decathlon is an international competition of universities that design, build solar powered homes. During the summer of 2009 the Gable House was built in the Homeway Homes facility. The home had 9.5" of spray foam in the walls and floor and 12" in the ceiling. Because of the high R Values and the ability of spray foam to eliminate air infiltration, the University believed it was more economical to build with super insulation rather than purchase expensive solar panels. In short, it was better to conserve energy than to produce it. In October of 2009 the Gable House was transported to Washington DC and was on display for two weeks on the National Mall. Illinois placed second in the competition with Team Germany placing first. The Solar Decathlon project was a huge success for Homeway Homes and its Energy Strength Spray Foam Insulation product. The Gable House is now on display at the University of Illinois campus in Champaign, Illinois.

Benefits of using Foam: High R Value, Eliminates air infiltration, Provides twice the strength to a wall or ceiling as compared to regular insulation, It is waterproof, It is mold resistant, It is an approved flood resistant material

2010 SPFA Industry Excellence Awards  
Category: Residential Wall Foam
West Roofing Systems: EITS at Forward Operating Bases - Iraq

Installer: Mike West, Brian Chavalia, Skip Kline, Greg Butchko, Frank Kriews, Greg Haas, Butch Kline, Kurt West, Scott Warner, Stanley Davis Jr., Chris Neff, Tom Buchanan, Mark Nagy

Location: Iraq

Type of Job: Exterior Insulation of Temporary Structures (EITS)

Square Footage of Job: 6,300,000 square feet

Equipment Used: listed below

Number of people needed for the Job: 28

Number of days required by the Job: 10 months

Special Requirements: 7 days training on working with the military

Foam and coatings used: Honeywell TERRA Strong 2# Foam and Acrylic Coating

Project Description: West Roofing Systems, Inc. insulated 6,300,000 square feet during 2008-2009 on over 2,000 structures at 20 Forward Operating Bases (FOB) throughout Iraq during Operation Iraqi Freedom July 2008 and November 2009. The contract required the installation of 2 of Honeywell TERRA Strong 2 pound density foam utilizing Honeywell Ennovate 3000 with 16 mils of Honeywell TERRA Strong Acrylic Coating applied in two coats. West was required to build 10 fully-equipped spray foam teams ready to ship overseas within 15 working days. A total of 10 foam team trailers were built with 2 additional trailers to carry all of the support equipment required, including, ladders, work platforms, spare parts, safety equipment, PPE and air line. (5) Wacker 58KW tow behind generators and (5) Sullivan 210cfm tow behind air compressors were required to power the foam teams. (2) 28 Genie all-terrain telescoping boom forklifts were sent for material handling and man lifts. All of West personnel and equipment was in-country at Victory Base, Baghdad, Iraq in July ready to begin spray operations. Initially all 10 teams worked as one group at TQ base able to reach all structures within an 800 radius. After completing the initial 1,246,700 square feet at TQ base, the large foam group was split into two groups and mobilized to separate bases. The crews had to contend with day time temperatures reaching up to 142F and as low as 40F while fighting sandstorms limiting visibility to 20 and dirt devils would occur with little or no advanced notice. The crews lived in military quarters and ate with the soldiers. In addition to extreme environmental conditions, the crews had to contend with enemy fire. The structures, locations and types of construction were numerous in styles creating unique problems at almost every location.

Benefits of using Foam: energy savings of 40 to 75 percent. reduces the militarys dependence on fuel for power generation reducing the number of road-bound convoys, saving lives, and significantly increasing the comfort level of military personnel. Force Multiplier allowing the soldiers to sleep in a controlled, quieter and comfortable environment; provided dust mitigation significantly reducing the infiltration of dust to occupied areas; provided structural reinforcement to aged/damaged structures and limited collateral damage experienced by blast mitigation preventing the projectiles from entering the occupied areas in many instances.

2010 SPFA Industry Excellence Awards

Category: Other
Installer: Energy Shield, Inc.
Location: Saginaw, Michigan
Type of Job: Re-roofing
Square Footage of Job: 50,000
Equipment Used: Gusmer proportioning unit and Grace airless paint pump
Number of people needed for the Job: 6
Number of days required by the Job: 2-3 months
Special Requirements: site-specific safety plan, roof-top safety meeting
Foam and coatings used: Bay Systems foam and coating

Project Description: Saginaw Michigan, US Postal Service mail processing center. 50,000 square foot, standing seam metal roof that had 18 roof top mounted HVAC units that required frequent maintenance. There were numerous leaks at the overlapping seams and around units. The system used consisted of:
1. adhering a 2½ iso-board (pre-beveled) onto the metal roof between the standing seams using Firestone Iso 95+ polyiso foam adhesive.
2. Over the board, BaySystems primer was installed followed by a 2 layer of BaySystems 3.0lb density foam forming a continuous near-flat roofing assembly over the entire roof. Standing seams were completely buried beneath the foam.
3. Over the foam, the BaySystems silicone rubber membrane with granular surfacing was then installed to meet 20-year performance criteria

Benefits of using Foam: Stop the numerous roof leaks at seams and around HVAC units. Alter the roof surface to facilitate access to HVAC equipment for frequent repairs. They wanted the roof to be relatively flat/smooth to facilitate walking and rolling hand-carts. The finished roof system now offers a uniform roof surface for walking and movement of small rubber tired carts. With granular surfacing, it is slip-resistant and able to handle most random foot traffic. Roof pads were installed around the scuttle hatch and along side each HVAC unit at the access panels.

2010 SPFA Industry Excellence Awards
Category: Roof Foam > than 40,000 ft sq.
Installer: Energy Shield, Inc.
Location: Warsaw, Indiana
Type of Job: Insulation
Square Footage of Job: 6,800
Equipment Used: Gusmer proportioning unit and Grace airless paint pump
Number of people needed for the Job: 4
Number of days required by the Job: 6
Special Requirements: Used a 45' boom man-lift and 30' scissors scaffold
Foam and coatings used: NCFI Foam (11-012) and Coating (70-014)

Project Description: Warsaw Indiana, Waste Water treatment plant. Sprayfoam directly onto the steel sidewalls of two digester tanks. Tanks were vertical, 24 height x 45 diameter.

Benefits of using Foam: What makes the project special are the unique attributes of Sprayfoam, i.e. Outstanding full adhesion to practically any substrate, full/total adhesion, Ability to conform to shape of the substrate, excellent insulator, and cost effective applications, these are the attributes that make SPF very competitive on jobs such as these tanks. Also, having done similar tanks at Toledo OH (and other municipalities) 20 years ago and having continuous performance data, makes the system highly desirable to facility operators. They want something they could depend on that would work over many years with minimal maintenance.
Installer: Brandon Lee, Joe LaRoche  
Location: Guilford, CT  
Type of Job: walls/ceilings/floors  
Square Footage of Job: 12067  
Equipment Used: Graco E-30  
Number of people needed for the Job: 2  
Number of days required by the Job: 15  
Special Requirements: Job required multiple mobilizations  
Foam and coatings used: NCFI Insulstar/Aldo 757 Ignition

**Project Description:** Located on Long Island Sound, home was renovated and designed to look like a ship from the water, complete with upper decks, railings, portholes, and smokestack. 2nd and 3rd floor was added to existing ranch built in 1960. Job required extra mobilizations as specific areas were demolished to gain access to insulated areas, and then rebuilt before moving on to the next area. Existing areas of the original home also had to have protection from overspray from foam being applied above and below.

**Benefits of using Foam:** Foam offered air barrier for high winds off the water, as well as moisture protection in case of flooding. Unusual framing designs and curves were easy to insulate with spray foam. Could achieve higher required R-values in existing framing.

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**2010 SPFA Industry Excellence Awards**  
Category: Residential Wall Foam
Installer: Jeff Rumsey
Location: Cherokee, NC
Type of Job: Cavity wall
Square Footage of Job: 80,000
Equipment Used: E-20 and E-30
Number of people needed for the Job: 6
Number of days required by the Job: 31 weeks
Special Requirements: standard OHSA regulations
Foam and coatings used: NCFI's InsulBloc

Project Description: The Eastern Band of the Cherokee Nation set out to build a new educational facility which embodied the ancient Cherokee values matched to modern day American diversity of the tribal members. The complex consisted mostly of Structural Insulated Panels (SIPs) but there was 80,000 square feet of walls in which the SIPs could not be used. The structural masonry walls and metal stud framing required air sealing, water sealing and insulating beyond minimum code R value requirements. Coordination was set up with the general contractor to schedule the sequencing of the wall construction, electrical and plumbing rough in and interior metal stud installation so the spray foam application was completed after all penetrations were installed. The InsulBloc spray foam application comprised of exterior application into the masonry cavity plus interior application around and behind the metal stud framing, which was offset from the wall by 1 inch to permit the application of a continuous membrane of the InsulBloc spray foam. The end result was a facility that earned Silver LEED certification and was awarded the prestigious 2009 ABC Eagle Award for school design/construction and the 2009 McGraw Hill Southeast Construction Magazine Best K-12 School Construction.

Benefits of using Foam: Multiple functions: air barrier, moisture barrier, insulator with one process. Able to seal wall to roof junction and joints of dissimilar materials to form continuous membrane resulting in maximum performance.

2010 SPFA Industry Excellence Awards
Category: Commercial Wall Foam
Installer: Tim Reath, Joe LaRoche, Dave DesMaris
Location: Syracuse, NY
Type of Job: cavity wall
Square Footage of Job: 30,000 SF
Equipment Used: Graco H40, EXP-2
Number of people needed for the Job: 2
Number of days required by the Job: 10
Special Requirements: LEEDS certification
Foam and coatings used: DOW STYROFOAM Spray Foam

Project Description: This was a new 54,000 SF basketball practice facility constructed on the SU Campus. It is named after one of the NBA’s best players who attended Syracuse University.

Benefits of using Foam: The Thermax Total Wall System provides an energy efficient wall that incorporates an Air and Vapor Barrier into one complete system.
Installer: Anthony P. Dempsey, Anthony Jackson
Location: 1 Tradewinds Ln, Seabright, NJ 07760
Type of Job: Exterior and First Fl. Walls
Square Footage of Job: 6000
Equipment Used: E-30 Graco Reactor Proportioner Machine and Graco Air Purge Fusion Gun
Number of people needed for the Job: 2
Number of days required by the Job: 4
Special Requirements: N/A
Foam and coatings used: Sealexion 500 Open Cell & Heatlok Soy Closed Cell

**Project Description:** This property was located in a federal flood zone. Therefore, we had to spray closed cell on the first 4’ of the cavity, followed by open cell above it on the next 4’ of the cavity. This project required an air and moisture impermeable insulation. Open cell was incorporated into the top of the wall cavity and used in the rest of the house in order to save the customer some money.

**Benefits of using Foam:** Only spray foam could have provided the type of moisture protection this structure needed.
Installer: Brian Martin, Steve Martin, Lou Valentin
Location: 390 E. Leland Road Pittsburg, CA 94565
Type of Job: Polyurethane Foam Installation
Square Footage of Job: 39,500 Sq. Ft.
Equipment Used: Max-X Foam Equipment, 2001 Featherlight Trailer
Number of people needed for the Job: 4 to 8
Number of days required by the Job: 30 Days
Special Requirements: The use of foam Froth Paks by the solar contractor
Foam and coatings used: BaySystems Foam & Coating

Project Description: An independent solar contractor mounted wood curbs and steel bases to the deck through holes they cut in the BUR. They sealed the holes with Dow Froth-Pak. Then they installed 2" dia. steel pipe stanchions to support the solar collectors, and installed a 16,000 gallon water tank on a new enclosed curb on the roof. Foam Experts enlarged all the scuppers, raised vent and duct curbs, insulated all the duct work, foamed in all the new penetrations and installed a 2" minimum thick SPF roof over the BUR. The existing roof slope is ¼ and the specifications required no ponding greater than 50 SF and not deeper than ½. The foam roof was surfaced with 35 mil (min.) acrylic coating and granules.

Benefits of using Foam: Single ply and SPF roofing were options considered by the Owner and Consultant, closely comparing costs and performance issues. They determined that SPF was the best solution because of its ability to seamlessly seal the new curbs and penetrations into the roof system. The Consultants budget analysis comparing the two systems also showed SPF to be the best value.
Installer: Zbigniew Tybon, Michael Strachan
Location: Rte. 209, Gilbert PA
Type of Job: Open Cell SPF in Garage Walls
Square Footage of Job: 2200
Equipment Used: E-30 Graco Reactor Proportioner Machine and Graco Air Purge Fusion Gun
Number of people needed for the Job: 2 people
Number of days required by the Job: 1 day
Special Requirements: N/A
Foam and coatings used: BioBased 501w Open Cell SPF

Project Description: Project was for a retail showroom. We sprayed the warehouse located in the rear of the building. This was a carpet store and so it was important to keep moisture out.

Benefits of using Foam: SPF worked well here to keep the moisture out of the warehouse so that the inventory (carpeting) stayed in a dry environment.
SealRite Spray Foam: Roof Deck

Installer: Zbigniew Tybon, Henry Zyhajlo
Location: 25 Pine St., Roosevelt, NJ 08555
Type of Job: Roof Deck Flat Ceiling Insulation
Square Footage of Job: 1400
Equipment Used: E-30 Graco Reactor Proportioner Machine and Graco Air Purge Fusion Gun
Number of people needed for the Job: 2
Number of days required by the Job: 1
Special Requirements: Heating of substrate & ambient temp. monitoring
Foam and coatings used: Demilec Heatlok Soy CC SPF

Project Description: Removal of existing flat roof, sprayed CC SPF in cavity and new roof installation. Sprayed 4" for an R27.

Benefits of using Foam: CC SPF provides the maximum thermal performance in a roof deck.

2010 SPFA Industry Excellence Awards
Category: Roof Foam < than 40,000 ft sq.
Installer: Richard Conley  
Location: Ravenswood, WV  
Type of Job: Improve energy efficiency within the plant  
Square Footage of Job: 16,000 sq. ft.  
Equipment Used: Gusmer Marksman  
Number of people needed for the Job: 3  
Number of days required by the Job: 5  
Special Requirements: All work had to be done nights and weekends.  
Foam and coatings used: PSI #255 One-Step foam at 1

**Project Description:** Alcan was extremely concerned about disruption to their business, but were intent on improving their energy efficiency and improve the comfort level of the working environment. Work was done nights and weekends and one inch of PSI #255 One-Step foam was used.

**Benefits of using Foam:** The selection of the PSI foam helped minimize the time required on-site and the potential disruption of plant operations. It allowed the work to be completed in a single pass, rather than the need for a multipass operation with coating applied over the foam. The customer is pleased that their desired result has been achieved.
Installer: Barry Burns, Rick Conley, Jeff Conley and Aaron Parsons
Location: Burlington, New Jersey
Type of Job: Apply foam and coating to all interior metal
Square Footage of Job: 300,000 sq. ft.
Equipment Used: 4 Gusmer Marksman Machines
Number of people needed for the Job: 10
Number of days required by the Job: 60 days
Special Requirements: All work had to be done nights and weekends.
Foam and coatings used: Staycell urethane foam, and Stayflex non-permeable coating

**Project Description:** The average life of a compost facility is fairly short. Storing compost at a high-enough temperature to have it decompose properly (target at roughly 120 degrees, but at a minimum 90 degrees) creates extremely humid conditions and gases. The facility is 100% humidity 100% of the time. Burlingtons facility was at the end of its life cycle. However, instead of destroying the structure and starting over, the facilities management group for the facility contracted with FoamCoats corrosion control system to salvage the facility. Some steel perlins and Z-beams were damaged too badly and were replaced. The roof, ceilings, metal portions of the walls, and all structural steel were then covered with foam and corrosion resistant Stayflex coating. The condition of the roof, ceiling and walls was not good and required extensive prep work to get the surfaces ready for the various applications. The facility was needed so the management group wanted the job done as quickly as possible. With just over 300,000 square feet to complete, FoamCoat used four spray crews; two operating at a time, two shifts per day, six days a week. Due to space constraints, many spots required a considerable amount of hand work to ensure the desired coverage of foam and coating.

**Benefits of using Foam:** The job was completed in a timely fashion. All metal is now protected and will now become a minimal maintenance item, instead of the major headache it had become. It is attractive and has very good reflectivity which will be helpful in a dimly-lit environment. The steel is completely encased with foam and coating and now has an indefinite life expectancy, with testing of this system showing no measurable deterioration after twenty years. It can be hosed down without damaging the coating to keep the gains achieved in improved reflectivity and appearance.

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**2010 SPFA Industry Excellence Awards**
Category: Commercial Wall Foam
Installer: Ron Perdue, Aaron Parsons, Jeff Conley
Location: Columbus, Ohio
Type of Job: Foam and coating of tops of digesters
Square Footage of Job: over 50,000 sq. ft.
Equipment Used: Gusmer Marksman Machines
Number of people needed for the Job: 6
Number of days required by the Job: 45
Special Requirements: n/a
Foam and coatings used: BASF three pound, Neogard urethane coating, Sesco granules were added to the coating at the walkways to improve traction.

Project Description: FoamCoat Roofing and Coatings was contracted to install an average of four inches of polyurethane foam and urethane coating to eleven digester covers at the Columbus Southerly WWTP. The project totaled roughly 50,000 square feet. The digester covers had 6 braces with larger lips. The foam was filled and tapered to provide proper drainage. Walkways were also built into the top of each digester, initially at a minimum level to meet schedules and then finished later. Minimum 4 of BASF three pound foam on the top of all digesters, 40 mils of Neogard urethane coating, Sesco granules were added to the coating at the walkways to improve traction.

Benefits of using Foam: Customer was extremely pleased at the professionalism, efficiency and skill of FoamCoat personnel. The job has exceeded their expectations in terms of performance and appearance.
Installer: Richard Conley
Location: Kenova, WV
Type of Job: waterproof dome and provide insulation value.
Square Footage of Job: 50,000 sq. ft.
Equipment Used: Gusmer Marksman Machines
Number of people needed for the Job: 4
Number of days required by the Job: 30
Special Requirements: There were a number of additional safety issues with the project. These were all met and the work was completed without incident and exceeded the customers expectations.

Foam and coatings used: BASF three pound, Volatile Free, Inc. primer, Volatile Free, Inc. single component urethane coating

Project Description: Dyno Nobel had water coming from both leaks and condensation in their dome in Kenova, WV. They selected FoamCoat to solve the problem with the application of urethane spray foam and coating to the outside of the 50,000 square feet of the dome. The site did not provide favorable access for the equipment FoamCoat needed to accomplish the task. However, the more obvious and difficult challenge was the shape of the domed structure. Peaking at roughly one-hundred feet in the air, the domes curved surface made it difficult to work on and slowed the spraying process significantly. One and a half inches of Volatile Free, Inc. primer was applied to the surface of the dome, Volatile Free, Inc. single component urethane coating was applied.

Benefits of using Foam: The job was completed ahead of schedule. Safety procedures worked extremely well. The customer has reported no problems to date and the dome is dry and water-tight.
Installer: Barry Burns, Jeff Conley  
Location: Clarksburg, WV  
Type of Job: Roof repair and replacement  
Square Footage of Job: 3500 Sq. Ft.  
Equipment Used: Gusmer Marksman Machines  
Number of people needed for the Job: 4  
Number of days required by the Job: 7  
Special Requirements: Considerable clean-up and repair work prior to foam application.  
Foam and coatings used: Lapolla SPF, Neogard silicone coating

**Project Description:** Foam old KFC roof which had three different sections and three different roof systems; all in very bad shape. The roof had damaged sidewalls where attached cables had pulled out sections of the wall, many protrusions (most leaking) and years of patchwork with most of the buckets, brushes etc. that were used still littering the roof. The owners challenged FoamCoat to overcome years of neglect and abuse, to eliminate leaking problems and provide a long-term, serviceable roof. Some roofs are in more need of help than others and this roof had multiple problems. It had damage to walls surrounding the roof, was leaking profusely and had three separate sections each with different roofing materials and past patching efforts. Prep work was fairly extensive with repair and replacement of the damaged walls with new plywood and other needed materials, removal of gravel and trash and other prep required to allow application of foam. Application of 1 to 1.5 of Lapolla SPF over parapets, walls and roof, sealing around the many protrusions and improving drainage of ponding areas. Neogard silicone coating, with a dark base coat and lighter colored top coat application.

**Benefits of using Foam:** The customer is pleased as all leaking has been eliminated. Damaged walls and other deficiencies have been corrected and protected from further deterioration without expensive total replacement of the walls. The appearance has been dramatically changed and the roof is now both attractive and serviceable.
Installer: Barry Burns
Location: St. Marys, WV
Type of Job: replace rubber roof with foam roof
Square Footage of Job: 3500
Equipment Used: Gusmer Marksman Machines
Number of people needed for the Job: 4
Number of days required by the Job: 2
Special Requirements: N/A
Foam and coatings used: Lapolla foam Neogard silicone coating Sesco granules

Project Description: Replace the old, leaking smooth built-up roof with a foam system to make it watertight and improve insulation value. The granules were added to provide extra durability and wear.
Installer: Rick Conley  
Location: Sistersville, WV  
Type of Job: and coat, prep and recoat  
Square Footage of Job: 37,400  
Equipment Used: Gusmer Marksman Machines  
Number of people needed for the Job: 4  
Number of days required by the Job: 14  
Special Requirements: n/a  
Foam and coatings used: Lapolla, Gaco Western 100% Solids Silicone  

**Project Description:** Customer has twenty year history with foam. The project included new foam for some areas, prep and recoat of others. The same coating was used for both new and old foam to give a unified, complete appearance at completion.

**Benefits of using Foam:** The customer has been very pleased with their past experience with foam and with FoamCoat. They are even more pleased that at the completion of this project their roofs look very appealing and that their twenty year old sections look as good as the newest additions. They anticipate continued outstanding performance from all roofs. They are truly a foam success story.
Installer: Rick Conley and Aaron Parsons  
Location: Fairmont, WV  
Type of Job: Roof replacement  
Square Footage of Job: 9,000 sq. ft.  
Equipment Used: Gusmer Marksman Machines  
Number of people needed for the Job: 5  
Number of days required by the Job: 3  
Special Requirements: Late in the season meant a short window of decent weather. The roofs were very difficult to access or to get materials up. This was a key advantage of the foam selection.  

Foam and coatings used: Lapolla polyurethane foam, Neogard silicone coating

**Project Description:** The goal was the replacement of the tired and leaking rubber roof with a watertight roof system. We sealed over coping seams and utilized foam to tie-in various walls, roofs, skylights and other areas to eliminate existing problems. In short, redo the roof system so that it helps, rather than hinders, the humanitarian goals of the organization. Late in the season, there was a short window of weather in which to work. There was no parking next to the building and the roof could not be easily accessed to lift materials onto the roof. Using foam meant we could easily pull foam hose to the roof over this area for application, yet another advantage for the customer. Ministry services could not be discontinued so the roof replacement needed to be accomplished with minimal disruption. Two inches of Lapolla polyurethane foam were applied providing a seamless monolithic surface, and giving an over thirteen R-Value. Low areas were built up with extra foam to eliminate the two to four inch lakes that had existed on the roof. Coping was coated, skylights covered, all protrusions and tie-in areas flashed and sealed against future leaking. Two coats of Neogard silicone coating were applied over the roof, a dark base coat and a reflective white top coat for additional energy benefit.

**Benefits of using Foam:** Ministry management was pleased that Foamcoat worked with them to achieve their financial and operational goals. The job was completed in a narrow window of good weather with no disruption to the ministrys operation. Leaking was eliminated. Colder weather moved in immediately behind the completion. Maintenance personnel are excited about the appearance, the improved drainage that has been achieved in previous low spots, the elimination of weight that has been achieved by replacing tons of gravel with lightweight foam and the minimal future maintenance requirements of a foam roof.

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**2010 SPFA Industry Excellence Awards**

Category: Roof Foam < than 40,000 ft sq.
Installer: Nickolas Baker, Chris Kascur, John Smith
Location: Bethlehem, Pa.
Type of Job: Cavity Wall Insulation/Building Envelope
Square Footage of Job: 51,757 sq ft
Equipment Used: Gusmer 20/35 Pro, Gusmer Fusion Gun
Number of people needed for the Job: 2 to 3 men
Number of days required by the Job: 38 days
Special Requirements: Public Safety and Overspray Prevention
Foam and coatings used: LaPolla Foam-Lok FL-2000 2 lb. closed cell foam

Project Description: Broughal Middle School is part of the Bethlehem Area School District and located in Bethlehem, Pa. The project has been designed to achieve a silver rating under the U.S. Green Building Council, Leadership in Energy and Environmental Design (LEED) guidelines. Surrounded by a parking garage to the East, parking lot to the West, an apartment building to the North and the existing school to the South, public safety and overspray prevention were top priority. We utilized a custom built enclosure that was bolted to the basket of a 60 boom lift that was utilized to spray the structural CMU and exterior gym board walls. The application took approximately 38 days to complete over a 5 month period that included 6 mobilizations.

Benefits of using Foam: Spray Foam was selected as the cavity wall insulation for the project because of the multiple value that it provides. The General Contractor was able to issue one contact and coordinate with one contractor for the Air Barrier, Vapor Retarder, Drainage Plain and Insulation System. We closely coordinated our application with the masonry contractor to meet the aggressive schedule the General Contractor had set. The school district benefited from initial cost savings associated with elimination of redundant building materials and will save countless dollars on energy costs during the anticipated 50 year service life of the school. Spray Foam played a key role as a component of the schools building envelope system by protecting is against the uncontrolled movement of heat, air, and moisture.
Platinum Building Solutions, Inc.:
Temperature Phased Anaerobic Digester Tanks

Installer: Heath Evans, Jim Davidson, Virgil Strauch
Location: Oswego, IL
Type of Job: Tank
Square Footage of Job: 13,000
Equipment Used: Gama Master Guns, Graco H25, Gama G250H, Gusmer H20/35 Pro

Number of people needed for the Job: four to eight
Number of days required by the Job: nine

Special Requirements: The specially constructed tank bracing that held the perimeter burlap served as both a wind screen and a warning line
Foam and coatings used: BASF ELASTOSPRAY® 81305 BASF ELASTOCOAT Polyurea

Project Description: This unique project was located near Oswego, IL at a water reclamation district. The newly constructed temperature phased anaerobic digester tanks (13,000 SF) was primed with Tnemec primer, then 6.0 of spray polyurethane foam (BASF ELASTOSPRAY 81305) was laid down using Gama Master Guns, a Graco H25 and a Gusmer H20/35 Pro. A Gama G250H high pressure polyurea proportioner combined with another Gama Master gun laid down 40mils of aromatic polyurea base coat (BASF ELASTOCOATâ‘c 8829/88290) and then another 20 mils of aliphatic top coat (BASF ELASTOCOAT 8848/88480); not to mention the tricky part of getting the SESCO granules embedded before the fast setting polyurea cured. Polyurea was chosen for its high resistance to foot traffic and to the harsh chemical environment the tanks were exposed to. Since October was the coldest in 130 plus years and the six weeks of project time only yielded nine days that the crew could work, the original crew size was bumped from four to eight. A few of the unusual factors that drove the design of the polyurea coated foam insulation system was the CH4, CO2, & H2S gases, the anaerobically digested sludge & digester gas, the material pH of 7, and the 133° - 140° F operating temps. Throw in two OSHA visits with no write-ups and you can tell the Platinum crew was on top of their game.

Benefits of using Foam: Nine Days, 26 sets of foam, 750 gallons of polyurea, and 4,500 lbs of granules. Also that those nine days were in the windy city, over six weeks of nothing but rain and 40° - 50°F degree days and after the time change so they were short daylight days. Superiority of SPF vs. other insulations, Ability of SPF to conform to irregular surfaces, Spray polyurethane foam was really the only option to conform to the round dome shaped tank.

2010 SPFA Industry Excellence Awards
Category: Tanks and Vessels
Platinum Building Solutions: Salt Dome

Installer: Heath Evans, Jim Davidson, Jason Dye, Tim Reed
Location: Quad Cities
Type of Job: roof
Square Footage of Job: 15,000
Equipment Used: Graco H25, Graco NXT Xtreme 60, Gama Master Gun
Number of people needed for the Job: four
Number of days required by the Job: five
Special Requirements: all work performed from boom lift
Foam and coatings used: BASF FE348-2.8 NEOGARD Permathane II FR

Project Description: SPF is premiere in its insulating abilities and well known for creating long term performance. So why would anyone want to insulate a 55’ tall salt dome located in Davenport, Iowa and make it energy efficient? In this case, BASFs spray polyurethane foam was used for its other benefits. Namely, it enhances structural value, its monolithic sealing, its impact resistance and it offers a long term sustainable roof system; All the features that steep slope shingles lack for this type of design. The salt domes are known for having loose shingles, sliding shingles, delaminated shingles, and the overall troubles of the shingles not being able to perform on such a pitched roof assembly long term; now throw in the labor involved to install shingles and its not good. Platinums crew of four started by simply nailing down the shingles to provide a secure substrate, vents were raised, a Gama Master Gun on the end of an H25 proportioner laid down the 1.0 of BASFs FE348-2.8 spray polyurethane foam, then a Graco NXT Xtreme X60 was used to spray 39 mils of polyurethane coating in four coats. NEOGARDs Permathane II FR system (26 mils of aromatic polyurethane base coat (70620) and 13 mils of aromatic polyurethane top coat (70613)) is so well suited for this task, come 10 years down the road the owner can simply recoat and go

Benefits of using Foam: Speed of SPF application vs other insulations, 15,000 square feet of steep slope, oddly shaped, safety hazard structure doesn’t lend itself very well to a shingling operation. Superiority of SPF vs other insulations: The DOT wasn’t necessarily looking for insulation abilities, but rather its ability to provide a sustainable roofing system for many years of performance. Ability of SPF to conform to irregular surfaces dome had 20 segments. Special Safety considerations: The complete installation had to be performed solely from a diesel powered JLG telescopic boom lift.

2010 SPFA Industry Excellence Awards
Category: Roof Foam < than 40,000 ft sq.
Platinum Building Solutions:
US Army Arsenal

Installer: Heath Evans, Jeff Irwin, Jim Davidson, Nick Durbin
Location: Midwest
Type of Job: commercial wall insulation
Square Footage of Job: 33,000
Equipment Used: two graco h25, gama master guns, bullard fresh air
Number of people needed for the Job: six
Number of days required by the Job: 15
Special Requirements: generators could not be used outside due to fumes
Foam and coatings used: BASF Spraytite 178

Project Description: This unique project was located in the Midwest at a United States Army Arsenal. The structure was over 150 years old and 33,000 square foot of the building was being remodeled and energy efficiency was of key importance. BASFs Spraytite® 178 was spray applied at a mere 6.12 and then topped with 1.0 of International Cellulose, Ure-k 15 minute thermal barrier. Two H25 proportioners hooked up to Gama Master Guns sprayed out the 45 set project in 13.5 days using four spray foam applicators and two laborers. Since the SPF/Ure-K assembly (total R-value of over 40) was to be exposed, the finished ceiling had to be smooth and present an aesthetically pleasing view.

Benefits of using Foam: Speed of SPF application vs other insulations: With over 6,000 picture framed cavities, 1,200 connecting rods to maneuver around, all overhead, it was no challenge for SPF to win hands down for speed of application. Superiority of SPF vs other insulations: The Corps of Engineers wanted the traditional prescriptive R40. Any other system would have had to been almost twice as thick to achieve this rating. They also desired a air seal on the ceiling building envelope component. Ability of SPF to conform to irregular surfaces: There were over 6,000 cavities to fill. Special Safety considerations: The first and second floors were in use during the 3rd floor renovation. Over 96,000 square feet of poly was used to seal in the third floor. Of course all applicators wore fresh air respirators (Two Bullard EDP10s with spectrum full face respirators), but Platinum took the extra step of running two negative air machines to ensure the safety of all. Other safety considerations were Aerial Lift Fall Protection, Hard Hats / Bump Caps, Temporary Poly Walls to segment work areas, Weekly Toolbox Talks, and Weekly Production Meetings.
Installer: Virgil Strauch, Jason Dye, Tim Reed, Nick Durbin
Location: Stewardson
Type of Job: roof
Square Footage of Job: 40,000
Equipment Used: H20/35 Pro, GX7, Graco 733
Number of people needed for the Job: five
Number of days required by the Job: 22
Special Requirements: see below
Foam and coatings used: BASF FE348-2.8 Conklin Rapid Roof III

Project Description: When the winter winds whipped through the Midwest and tore the EPDM off of this school, MidState was there to the rescue. This 40,000 SF school was no challenge for their crew of five, except for them facing the spring winds and rain in the middle of a prairie. This school has a history of wind damage, something the EPDM could not withstand. The crew spent 22 days removing the old EPDM, attaching a high density board stock to the already tapered system, then spraying 1.0 of BASF FE348 using a GX7 on a H20/35 Pro. To top off the system, Conklins Rapid Roof III acrylic coating was applied using a Graco 733.

Benefits of using Foam: Superiority of SPF vs other insulations: The school district was looking for a system to withstand the winds that their buildings experienced. Special Safety considerations: Since school was still in session, the crew had to shut down three times throughout the work day for the unloading a loading of students. 30 minutes in the morning, one hour at noon, and be completed by 2:50 in the afternoon. Ability of SPF to conform to irregular surfaces: With the multi day project, there was a noticeable time savings at the tie-in locations through the use of SPF.
Installer: Several
Location: Syracuse NY
Type of Job: Building Envelope, Walls And Roof
Square Footage of Job: 40-45'00 SF
Equipment Used: H2035
Number of people needed for the Job: 3
Number of days required by the Job: Multiple
Special Requirements: Downtown location, special over spray consideration
Foam and coatings used: BAY SYSTEMS

Project Description: An old concrete and steel framed building was purchased and renovated into a major local architect’s main office. The building is located in a section of town being revitalized using green building tecniques.

Benefits of using Foam: 7-8 inches of foam provided a superior insulated building envelope. The building is designated LEED platinum and features wall insulation, a photovoltaic area utilizing foam and TPO roofing, a foam and coated roof area and white oak siding area, all installed by henderson johnson

Category: Other
Installer: **SP Works Inc., Michael Belleau**  
Location: **Hartford, VT**  
Type of Job: **Exterior application of closed cell foam, ETICS**  
Square Footage of Job: **12000**  
Equipment Used: **Masterbond SP vac-plane tool and other proprietary tools, Gusmer H2000 proportioner, 200 feet of hose and air purge Fusion Guns. 25 CFM Compressor, Pro Air fresh air respirators, Cartridge respirators**  
Number of people needed for the Job: **6-8 people**  
Number of days required by the Job: **60 days**  
Special Requirements: **All work completed after 3:00PM as is a school.**  
Foam and coatings used: **Masterbond exterior foam. Acr polymer & finish.**  

**Project Description:** This was an 11th hour commercial project decision on how to cover the foam specified for the Hartford VT High School, within budget. The high school classrooms were constructed of thin, fiber board panels with only 0.5 inches of insulation of unknown material from the 1960s, making these rooms unbearably cold in winter and excessively hot in the summer from UV radiation. They needed the highest R-Value possible within their budget. The Masterbond Wall System was applied to the exterior of the building to solve these problems. It is self-adhering and applied with no fasteners. The wall system uses, Masterbond SP exterior spray foam, Masterbond SP approved acrylic polymer, flexible basecoats and textured acrylic finish coat. It yields a high performance wall, with higher R-Value than EIFS systems, the lowest profile possible and a durable, aesthetically pleasing appearance. The Masterbond wall system was the energy efficient solution the high school needed, and was applied without disturbing the students. All spraying and planning (flattening) of foam had to take place after 3:00 PM, through the night when class was not in session. Safety equipment and respirators were required throughout the job. Heat was necessary towards completion to ensure proper drying of the finish materials.

**Benefits of using Foam:** We use foam because of its self adhering properties. It serves as an incredible, seamless base for exterior wall insulation, while providing high R-Value and energy efficiency. Additionally, closed cell spray foam, through Masterbond SP™s development, can be easily flattened to accept coatings and exterior finishes that protect the foam from UV degradation and make an aesthetically pleasing siding system.
Installer: SP Works Inc., Michael Belleau
Location: Wells, ME
Type of Job: Exterior application of closed cell foam, ETICS.
Square Footage of Job: 3400 (with windows in)
Equipment Used: Masterbond SP vac-plane tool and other proprietary tools, Gusmer H2000 proportioner, 200 feet of hose and air purge Fusion Guns. 25 CFM Compressor, Pro Air fresh air respirators, Cartridge respirators
Number of people needed for the Job: 3
Number of days required by the Job: 30 days
Special Requirements: Harsh Oceanside winter. Shrink wrapped scaffold.
Foam and coatings used: Masterbond exterior foam. Acr polymer & finish.

Project Description: This house is an ocean front residential home, designed to rent in the summer and live in during the winter. Because it is situated 20 ft. from an ocean wall, the owner demanded the best in water protection. The value of closed cell spray foam is truly seen and beneficial to coastal properties as special care needs to be taken to manage water and moisture. The Masterbond SP wall system has proven especially effective on coastal properties because of its use of closed cell spray foam. The entire exterior was wrapped in Masterbond SP ETICS exterior finish. The job was worked on in January, February and March on the harsh coast of Maine. It was necessary to shrink wrap the entire work enclosure in boat quality shrink wrap to ensure a high quality job and work conditions. This enclosure included three stories of full OSHA approved scaffolding, strong enough to withstand high winds. The work space was then heated with propane heaters. Safety harnesses and full gear were worn at all times.

Benefits of using Foam: Closed cell spray foam gives a super R-Value inside and out. Foam also has superior water management properties, as well as soundproofing. We also use foam because of its self adhering properties. It serves as an incredible, seamless base for our exterior wall system, while providing high R-Value and energy efficiency. Additionally, spray foam can be easily sculpted and planed flat to create smooth exterior surfaces and impressive trim.
Installer: Jon Kohls
Location: Snowmass, Colorado
Type of Job: Retrofit existing SPF Roof
Square Footage of Job: 4,000 sq. ft.
Equipment Used: Graco/Gusmer H-2035 Pro, Graco 733
Number of people needed for the Job: 6
Number of days required by the Job: 4
Special Requirements: Lots of prep work (covering windows and more...)
Foam and coatings used: BASF- 348 2.8 pound foam, CFS coatings

Project Description: The scope of the project consisted of: Scarifying the entire existing SPF surface to remove UV damaged foam. All scarified materials were collected and reused as blown-in attic insulation on an adjacent structure. Priming the scarified surface with a vapor permeable acrylic latex primer to ensure adhesion and to aid in evaporation of residual moisture in the existing foam. Application of BASF BPFE 348 2.8 pound density SPF with slope to drain. Application of Roof Tek Acry-Tek 9000 acrylic latex elastomeric coatings.

Benefits of using Foam: SPF s energy efficiency. The 4000 sq. ft. facility is their home and a research center for the Rocky Mountain Institute. The RMI facilitys energy and water savings features are among the most advanced in the world; it uses about a tenth the usual amount of household electricity (mostly solar generated) and it uses less than half the normal amount of water. Because the building is super insulated, it has no heating system in the usual sense. It is 99 percent heated by passive solar gain through the windows and greenhouse.

2010 SPFA Industry Excellence Awards
Category: Roof Foam < than 40,000 ft sq.
Installer: Victor Rodriguez and crew  
Location: Gainsville, florida  
Type of Job: roof/insulation  
Square Footage of Job: 25, 600  
Equipment Used: Graco h20/35  
Number of people needed for the Job: 5  
Number of days required by the Job: 30  
Special Requirements: work performed when there was no court hearings  
Foam and coatings used: BASF and Neogard

Project Description: Recover application with BASF SPF and 3-5000 Silicone Coating with granules. Neogard Neoflex Primer and Enviroseal 20 spray applied to walls. Occupied judicial building—very tedious project as we had to work around the courts schedule and lots of Florida/rainy weather. There were 3 different roof levels making this even more difficult.

Benefits of using Foam: The seamlessness and ability to completely flash existing penetrations with minimal demolition. Using any other product for this application would have only provided a temporary solution and with SPF, the roof is gauranteed for the next 10 years.

2010 SPFA Industry Excellence Awards  
Category: Roof Foam < than 40,000 ft sq.
Installer: **Ron Rocheleau**  
Location: **Anaktuvuk Pass, Alaska**  
Type of Job: **Floor, Wall and Roof of home**  
Square Footage of Job: **1000 sq ft**  
Equipment Used: **Gusmer H-2000**  
Number of people needed for the Job: **2**  
Number of days required by the Job: **5**  
Special Requirements: **equipment and materials had to be flown in**  
Foil and coatings used: **Demilec, Heatlok-Soy & Maxguard**  

**Project Description:** Located in Central Brooks Range of Northern Alaska, the small community of Anaktuvuk Pass has a number of homes poorly constructed for their extreme Arctic climate, and a shortage of housing as well. The completion of our model home marks an important milestone in the Anaktuvuk Pass portion of the Cold Climate Housing Research Center's (CCHRC) Sustainable Northern Shelter (SNS) program. The SNS program works with local communities to build affordable, culturally rooted and energy efficient housing in rural Alaska villages by combining traditional home designs with modern homebuilding techniques. As part of the SNS program, CCHRC collaborates with people of the community on the design of the home, to ensure the home is suitable to their lifestyle. Our model home seeks a compromise, using the earth-berm method of the past and the highest efficiency insulation system of the present to create comfortable and durable homes for the Village families.  
The construction method on the Anaktuvuk Pass project utilized an innovative building envelope. The technique involves a light steel frame construction with an interior plywood skin. An R-60, soy-based, polyurethane insulation is applied to this framework. The insulation layer is covered by a spray applied polyurea coating, which is durable, waterproof and resilient. Earth-banked walls and a layer of sod on the roof are used to buffer the structure from the strong winds and drifting snow. The home also makes use of natural lighting, water conservation, and other energy-saving techniques. To further reduce the home need for costly energy, solar panels were installed and a wind power system will soon be added to produce renewable energy.  

**Benefits of using Foam:** Spray Polyurethane Foam insulation is the only system on the planet that could have made this project possible.
Western Pacific Roofing, Inc.: Kovac Residence

Installer: Juvenal Villa, Joe Anthony Salinas, Homero Gustaro
Location: 1414 Chautauqua, Pacific Palisades, CA
Type of Job: cavity wall and underside of the roof deck
Square Footage of Job: 3,100 sf
Equipment Used: Graco Reactor E20
Number of people needed for the Job: 3
Number of days required by the Job: 7
Special Requirements: Working with CEA/HERs rater
Foam and coatings used: Biobased 501 & 1701 Soy-based Insulation

**Project Description:** 1" of BioBased 1701 Closed Cell Spray Foam insulation was applied in all exterior wall cavity and to the underside of the roof deck. 2 1/2" of BioBased 501 Open Cell Spray Foam insulation was applied to all 2 x 4 exterior walls to achieve an R-15 insulation value. 4 1/2" of BioBased 501 was applied to all 2 x 6 exterior walls and to the underside of the roof deck to achieve a R-21 insulation value. The 1" application of BioBased 1701 insulation was applied to create an air barrier throughout the house. The project team has identified sustainable products and measures to enhance durability, energy and water efficiencies, air quality and thermal comfort throughout the house. The house features numerous sustainable products that contribute to the overall comfort as well as efficiencies throughout. The 3100 square foot, four bedroom custom home is pursuing a LEED certification.

**Benefits of using Foam:** With all passive measures, it was critical to the project team to use a quality insulation that would properly seal the building envelope as tightly as possible. A high performance house that exceeds California's stringent Title 24 energy requirements.

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
Installer: The KFS crew  
Location: Stillwater, OK  
Type of Job: SPF Roof - Hail Repair  
Square Footage of Job: 192,000 square feet  
Equipment Used: Gusmer/Graco H 2035's, Graco 733's  
Number of people needed for the Job: 8  
Number of days required by the Job: 28  
Special Requirements: temps over 100 degrees  
Foam and coatings used: BASF 348 2.8 pound foam and Coating & Foam Solutions Acry-Tek 4200 basecoat and Acry-Tek 5000 topcoat, Coating & Foam Solutions primer

**Project Description:** Stillwater Oklahoma is no stranger to damaging hail storms. The storm hit the city with such force that car windshields, siding, sheet metal fascia, and virtually all types of roofing were severely damaged or destroyed. The folks at National Standard Co. were bracing for massive water intrusion into their wire and cable manufacturing facility. The building is over a half of a million square feet with various roofing systems covering the structure. Previous hail storms had resulted in damage to the roof and massive claims from incidental damages to the interior of the building. Manufacturing was shut down and lost revenue mounted up after each incident. Sprayed Polyurethane Foam was prescribed as the solution for their leaks and further moisture intrusion. Costly tear off was not needed and landfill costs were avoided. The repairs consisted of cleaning the existing surface and allowing it to dry. A primer was applied followed by one and a half inches of SPF. The SPF was then covered with an acrylic latex elastomeric coating system. The crews worked in temperatures exceeding 100 degrees F. during the installation. 12-14 hour days provided for a fast install and very little disruption to everyday business at the plant.

**Benefits of using Foam:** The SPF roof did not leak!!! This fact saved hundreds of thousands of dollars.

2010 SPFA Industry Excellence Awards  
Category: Roof Foam > than 40,000 ft sq.
Location: 2201 Baker San Francisco, CA  
Type of Job: residential wall  
Square Footage of Job: 9,615  
Equipment Used: Graco E30 w/Gap Gun Pro  
Number of people needed for the Job: 3  
Number of days required by the Job: 9  
Foam and coatings used: BaySeal CC, Bayseal OC,  

Project Description: The 2009 Metropolitan Home is a 7,700 square foot three story turn of the century brick building in San Franciscos elite Pacific Heights community was completely gutted to the core. The objective of the renovation was to spotlight green technologies along with, cutting-edge modern design, that would offer a fresh perspective on urban living.  

Benefits of using Foam: The developer selected a custom design to address the buildings thermal envelope issues including existing 100 year old brick facade, earthquakes and the demanding wet and windy marine environment. These were just a few of the objectives to overcome while aiming for the energy efficiency requirements of this Build It Green project. The primary reasons for choosing BaySeal CC foam was first and foremost moisture control and its high R Value in addition to the shear strength that closed cell SPF brings to the walls. With all the cracks and surface imperfections of an older brick structure that needed to be sealed in order to prevent air leakage and moisture migration into the structure, BaySeal CC was an obvious solution to the problem. BaySeal CC was also used to insulate the homes wine storage room. BaySeal OC completed the critical insulation and air sealing of the building envelope, including the special application of BaySeal OC in the Media Room and Childrens Play Room for its superb sound diminishing properties.

2010 SPFA Industry Excellence Awards  
Category: Residential Wall Foam
Installer: Sergio Garcia, Dave Row, Moises Garcia
Location: Racine, Wisconsin
Type of Job: LEED Platinum single family residence
Square Footage of Job: Aprox. 2700
Equipment Used: 1 Graco E-30, 1 Graco Exp-2
Number of people needed for the Job: 3
Number of days required by the Job: 5
Special Requirements: Meet LEED platinum performance
Foam and coatings used: 8 sets Bayer closed cell 2 lbs

Project Description: Biofoam was chosen for this project because of its reputation for attention to detail, as this is one of Wisconsin's first homes to be submitted for Leed Platinum certification. This was a particularly rewarding project because the home owner made sure all involved had a mutual goal; Build the best, home possible. The architect (Johnsen Schmaling), the General Contractor (John Beggi GC) and Biofoam together reviewed all details pertaining to the building envelope in order to meet LEED platinum expectations. Our new foam rig worked flawlessly, the state of the art equipment allowed us to get the job done right, on time and safely. Because of safety concerns no other contractors were schedule during foam installation and everyone on the biofoam crew wore a full face mask with properly filtered forced air. We look forward to working with these professionals again in the near future!

Benefits of using Foam: Bayseal closed cell spray foam insulation was chosen for this job because of its exceptional performance. This home is located on the shores of lake Michigan and the home owners wanted to make sure they kept the cold wet winter winds outside, so the architect specified 5” of CC foam (R-34) in the walls and 7.25 (R-52) on the underside of the roof.

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
Installer: Martin Gudino, Salvador Gudino, Maco Garza, Joe Chacon
Location: 38 W 676 Burr Road Lanee St. Charles, IL
Type of Job: Entire Building Envelope Walls and Roof Structure
Square Footage of Job: 6000 sqft / 14 Sets CC SPF and 2 Sets OC SPF
Equipment Used: Gama Machinery USA: G-140 Proportioner and Master Spray gun
Number of people needed for the Job: 4
Number of days required by the Job: 10
Special Requirements: Ignition barrier over SPF in Attic
Foam and coatings used: CCSPF: DOW Styrofoam RS 2045 OC SPF Gaco Green 052

Project Description: Andy Jurczyk had build 6 different homes in the Lincoln Park area of Chicago, IL. He and his family wanted to move out of the city, so Andy built this 6,000+ square foot home with a 1,200 square foot woodworking shop. The Home will be heated and cooled by a Geothermal field system. We always offer as an option a caulking package; Andy originally did not opt for the caulking package. However once Andy saw the IR pictures that showed all the top plates, double studs, and headers leaking air, he reconsidered and opted for the caulking package. The walls were sprayed to an R-20 and the roof structure was sprayed to R-40. All interior floors were sprayed with open cell foam for sound attenuation. We preformed a pre-drywall blower door test, which its results showed the building envelop was extraordinary tight even at the homes rough / un-finished stage of construction. This was totally attributed to the Closed Cell SPF. This was the first time Andy had used SPF, Andy stated he will always use SPF in all his future projects.

Benefits of using Foam: Tight building envelope, high R-value, reduced sound transmission

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
Installer: Martin Gudino and Joe Chacon
Location: 534 North East Avenue Oak Park, IL
Type of Job: Building Envelope, 3rd and 4th (attic) Walls and Roof
Square Footage of Job: 2,000 Square Foot House/ 2.5 sets Closed Cell SPF
Equipment Used: Gama Machinery USA: G-140 Proportioner and Master Spray gun
Number of people needed for the Job: 2
Number of days required by the Job: 2.5
Special Requirements: Specialized equipment, special safety measures, special contractual obligations?
Foam and coatings used: Closed Cell SPF: DOW Styrofoam RS 2030 - DOW Winter Blue Formula

Project Description: This Frank Lloyd Wright house, built for inventor Harry Goodrich in 1896, was based on Wrights designs for a group of low cost houses he designed but did not build in 1895. The current owners Mr. and Mrs. Donovan have been painstakingly renovating the home. This was our third round of work on this Historic House. Our latest project included spraying closed cell SPF to the exterior walls and the entire roof structure of the 3rd and attic floors. We applied R-20 to the Walls and R-40 to the Roofs of DOWs new blue winter formula RS2030. Since we sprayed the entire roof structure in the attic and the attic was going to use for storage, the Closed Cell SPF was required to be covered with an ignition barrier. International Fireproof Technology DC315 ignition barrier was sprayed over the exposed SPF in the attic. Mr. Donovan had a pre-drywall blower door test, which its results showed the building envelope was extraordinary tight. This was totally attributed to the Closed Cell SPF and the caulking of all the double studs/rafters and header. This historic house had many unique one of kind features that required extra special care. For example, there is one (1) window that is valued/insured at $45,000. Since we sprayed the entire roof structure in the attic and the attic was going to use for storage, the Closed Cell SPF was required to be covered with an ignition barrier. International Fireproof Technology DC315 ignition barrier was sprayed over the exposed SPF in the attic.

Benefits of using Foam: Tight building envelope, High R-value, Structural Strength

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
Installer: Martin Gudino, Salvador Gudino, Maco Garza, Joe Chacon
Location: 300 Oak Street Mt Prospect, IL
Type of Job: Entire Building Envelope, Walls and Roof Structure
Square Footage of Job: 5000 sqft / 12 sets of SPF
Equipment Used: Gama Machinery USA: G-140 Proportioner and Master Spray gun
Number of people needed for the Job: 4
Number of days required by the Job: 8 days
Special Requirements: Negative pressure zone with in our spray area
Foam and coatings used: Closed Cell SPF: DOW Styrofoam RS 2030

Project Description: Nick Papanicholas, Jr. comes from a family of commercial developers. Nick had used SPF on his commercial projects and was very impressed with SPF qualities. When he was planning the construction of his new Home in Mt. Prospect, IL, he knew that he wanted to insulate his new home with Closed Cell SPF. Nick had a very aggressive time schedule for the construction of his new home, so we had to share the construction site with other trades. We used ventilation fans established a negative pressure zone with in our spray area. Nick's home is a 5,500 square foot geothermal heated and cooled, super-insulated, energy efficient single-family residence that was design to be insulated with SPF insulation. The roof structure was unvented assembly and the wall framing was 2x4 framing. Closed Cell SPF insulation played three vital roles: Thermal Insulation, Vapor Retarder, and downsizing of construction materials. The walls were sprayed to an R-20 and the roof structure was sprayed to R-40, in addition all the wall sole plates and all double studs/headers were caulked. We preformed a pre-drywall blower door test with an IR scan of the home, which its results showed the building envelope was extraordinary tight. This was totally attributed to the Closed Cell SPF and caulking.

Benefits of using Foam: Downsizing of construction materials, High R-Value, Vapor Retarder

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
Installer: Shawn Dodge, James Hale, Scott Mathews
Location: United States
Type of Job: Roofing
Square Footage of Job: 120
Equipment Used:
- H3500 gusmer, H20-35 Pro Gusmer, 45 to 1 graco 2 each, smith hosit roof master, roof granular machine roof master
Number of people needed for the Job: 9
Number of days required by the Job: 120
Special Requirements: 30 lb square foot
Foam and coatings used: United Coatings, urethane 101 & 102 BASF
3lb foam

Project Description: >30 year old polyurethane foam roof. Original done 6-12 inches of foam and silicone coatings, required to remove 1 1/2" of foam. Reapply foam 60 mils of urethane coatings, United Coatings, tore off three sections and refoamed 12-6 inches of foam each section was 13,900 square feet.

Benefits of using Foam: 30 year old longevity and sustainable roof. Good for another 20 year warranty.

2010 SPFA Industry Excellence Awards
Category: Roof Foam > than 40,000 ft sq.
BioFoam, Inc.: Materson Residence

Installer: Sergio Garcia, Steve Davy, Dave Row, Moises Garcia
Location: Lincoln Park, Chicago
Type of Job: Residential Rehab
Square Footage of Job: Approx. 8500
Equipment Used: Graco 2) E-30's & 1 EXP-2
Number of people needed for the Job: 3
Number of days required by the Job: 5
Special Requirements: Meet "Chicago Green Permit" requirements
Foam and coatings used: Bayseal open & closed cell foam

Project Description: This 100 + year old building was originally built as a Lutheran parochial school, years later converted into a five unit residential apartment building, and then reconverted into a 4 unit/ 2000 sq. ft condo building. The current owner bought the building and put together a team consisting of Chicago architects, Sullivan Goulette & Wilson, and Chicago general contractor, Crescent Rock Construction, to redesign this beautiful historic building into a magnificent 8500 sq. ft single family home under the City of Chicago “Green Permit” program. This building now boasts among its many green features geothermal HVAC, solar hot water and of course foam insulation by BioFoam, Inc. This amazing project was also feature in green bean:
http://www.greenbeanchicago.com/adaptive-reuseliving-learning-environment/

Benefits of using Foam: A combination of open and closed cell Bayer foam was used to maximize the buildings envelope performance while minimizing wall dimensions.

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
Installer: Brad Houlden
Location: Imperial, NE
Type of Job: Roofing quonset (arch) building
Square Footage of Job: 17,250

Equipment Used: Water Cannon water blasters, Gusmer H20/35 Proportioner, Graco Premier 800 coating pump, 80 ft articulating boom with jib, 45 ft. articulating boom, Go-Lo winch (electric auto stop), Full body harness

Number of people needed for the Job: 4
Number of days required by the Job: 10
Special Requirements: Full time safety monitor on ground at all times.

Foam and coatings used: ER Systems 502772 -2.7 lb roofing foam, ER Systems Eraguard 1000 3 coat system acrylic grey/white

Project Description: This building represented some special challenges because of its location of being 12 feet from another building on the south side, high voltage power lines and railroad tracks on the north side and the building being an arch type building. The arch is 34 feet tall at the top of the arch so we needed a "platform" to work from above so an 80' articulating boom with jib was used to reach up and over the building and a special winch was purchased that has an auto stop feature and will only run in and out when an operators hand is on the switch. A ground monitor watched all operations to ensure that all personnel observed safe distances from the power lines and to make sure no lines or hoses or equipment were too close to power lines or were near or on the railroad tracks. The structure is an old wood framed metal skinned arch or quonset. The first phase of the project was to re-attach the loose skin of the building, installing 7400 3" screws. The structure had been painted silver in years past and required heavy water blast to remove loose paint and caulking material. The water line had to be dug under the railroad tracks to supply water to the water blasters. Using two different heights of lifts due to the very limited space between second building on the south and the railroad tracks on the north as well as the height of the power lines on the north this limited the "tail swing" so the smaller lift was used on the lower 1/3 of the building in all application process. After prep, 1 1/2 inches of 2.7 lb density roofing foam was apply to the entire arch of the structure. Following application of foam three (3) coats of acrylic coating was applied consisting of a grey base coat and two (2) coats of a photo bleaching blue to white coating to speed cure time of the system due to the wet weather pattern at the time of this project. After completion of the project the management of the feed store/warehouse informed us that this is the first time in 15+ years the building hasn't leaked.

Benefits of using Foam: The rehabillitation of this struture was accomplished in less time and with less capital outlay for the owner.
Installer: Fortino Juarez, Tony Juarez, Evan Estes
Location: Santa Rosa, CA
Type of Job: Ceiling
Square Footage of Job: 105000
Equipment Used: Graco E-30 Reactors, Fusion CS & Fusion AP Guns, Glascraft Probler P2 Gun

Number of people needed for the Job: 35-45
Number of days required by the Job: 20
Special Requirements: Must Complete all work within 21 days.
Foam and coatings used: Lapolla 2lb CC & Flame Seal-TB Thermal Barrier

Project Description: First and foremost it was almost 30 feet up in the air with the most difficult access, considered impossible by many due to obstacles at floor and ceiling level such as suspended ducting, cabling, airlines literally 4ft on center, equipment, etc. Virtually all of the work was done from 2 person man lifts. INSIDE: Remove interior radiant barrier/cap sheet covering from underside of roof sheathing. Inspect roof sheathing and structural ceiling support members and components for dry rot and or damage. Identify and map locations of sheathing replacement and structural repairs and replacement on grid map. OUTSIDE: Remove roof system from above area of repairs. Perform sheathing and beam replacement and glue lamb repairs. Install new class A temporary roof system over approximately 12,000 square feet of repair area. INSIDE: Mask and protect all walls, floors, equipment, lines, cords, etc. Mask all beams and glue lams to establish and maintain clean, defined transition at termination of foam application. Utilizing multiple rigs/crews, spray apply closed cell foam to underside of roof sheathing and encapsulate roof stringers. Apply Flame Seal, thermal barrier to all SPF. Remove masking and trim foam at all beams, glue lams and equipment penetrations through roof sheathing (3.6miles of trimming, over 19,000 lineal feet) to “picture frame” foam and yield a crisp well-defined termination of SPF. Hand apply Flame seal to cut edge at complete 3.6 miles of cut foam.

Benefits of using Foam: Highest R-value per inch, 6.5 per inch. Helps control moisture and condensation. Effective at low and high temperatures. Provides the correct environment so that the ventilation system performs more efficiently. Closed cell SPF adds structural strength. SPF assists in improving indoor air quality by, reducing the infiltration of outside air pollutants, insects, odors fumes, etc.
Instalador: Gustavo Martinez and Albert Ranes
Ubicación: Friends Center Building, Westgate Place, San Diego
Tipo de obra: Paredes y techos en espuma de celulosa
Superficie de la obra: aproximadamente 6,000 pies cuadrados de techos
Equipo utilizado: Graco E-30 proporcional con purga de aire fusionado
Número de personas necesarias para el trabajo: 4
Número de días requeridos para el trabajo: 3
Requisitos especiales: mucha, mucha y mucha masques
Materiales de espuma y revestimiento: Demilec Agri-balance at R-30 nivel

Descripción del proyecto: Este edificio fue diseñado para incorporar los "GREEN" materiales y productos con un contenido reciclado superior. Los materiales de construcción incluyen marcos de metal, muros de paja y espuma de celulosa aplicada a la parte inferior del área del techo calentado. Se seleccionaron muros interiores adicionales para controlar el ruido.

Beneficios de usar Espuma: Control térmico superior con espuma de celulosa basada en agro. Barrera aislante para reducir la pérdida de calor a través del movimiento del aire. Sólo desperdicio mínimo. Ajuste exacto en cavidades de marcos inusuales. Control excelente del ruido alrededor de baños y salas de mecanización.

Cool-Roof Systems:
San Diego First Church Of The Brethren

2010 SPFA Industry Excellence Awards
Categoría: Otro
Installer: Oswaldo Escobar, Henry Zyhajlo, Jerzy Golczewski
Location: 33 Manners Rd., East Amwell, NJ
Type of Job: Insulation
Square Footage of Job: 7700
Equipment Used: E-30 Graco Reactor Proportioner Machine, Graco Air Purge Fusion Gun
Number of people needed for the Job: 4 people
Number of days required by the Job: 5 days
Special Requirements: 3 tier scaffolding and body harnesses
Foam and coatings used: BioBased 1701s CC SPF Insulation

Project Description: This was residential METAL construction. We sprayed 3" of CC on roofline, 3" of CC in ceilings and 2.5" in walls and band joists. The interior walls and ceilings were constructed after the installation of the foam.

Benefits of using Foam: SPF Insulation was able to conform to the corrugated walls and ceilings.

2010 SPFA Industry Excellence Awards
Category: Residential Wall Foam
 Installer: **Nelson Reyes, Jorge Yanes**  
**Location:** 28 Cross St., Hillsdale, NJ  
**Type of Job:** Insulation  
**Square Footage of Job:** 2700  
**Equipment Used:** E-30 Graco Reactor Proportioner Machine, Graco Air Purge Fusion Gun  
**Number of people needed for the Job:** 2 people  
**Number of days required by the Job:** 3 days  
**Special Requirements:** Nearly Zero Energy Use  
**Foam and coatings used:** BioBased 501w & 1701s; Fire Res. Waterproof Coating

**Project Description:** This was a charity project for Homes for Our Troops - in conjunction with the foam manufacturer, BioBased Insulation. The other significance was that it was the first LEED Platinum residential structure in NJ. It had to be nearly zero energy use. 4" of CC and 10" of OC was sprayed in the attic and roof for an R60. Basement walls were sprayed to an R19, and Band Joists were spray to an R60 - using 11" of CC foam.

**Benefits of using Foam:** For the specific areas in which it was used, only SF Insulation could have provided the air seal that was necessary to tighten up the house.
Installer: The Crew
Location: 175 Wyman St, Waltham, MA
Type of Job: Cavity wall and Panel System
Square Footage of Job: 100,000SF
Equipment Used: Graco E-20 and XP3
Number of people needed for the Job: 9
Number of days required by the Job: 40 days
Special Requirements: Specialized equipment, special safety measures, special contractual obligations, OSHA safety training and certification, Boom Lift training and certification, Job site safety training and certification, Flame resistant covering for protection, Random Sampling and template test spraying per batch each day. Testing performed by SGH, Recording of temp, Humidity, Picture framing technique, 1" per pass restrictions
Foam and coatings used: NCFI Insulstar

Project Description: Very high profile FM Global Office park 2 building structure with lead Gold certification. Spray application A. cavity wall exterior aprox 60K SF over densglass covered with peel and stick membrane. Terracotta and steel covering the foam hung on z-gert system. The challenge was putting the foam in place without distorting the pre applied air barrier in New England weather conditions. Spray application B. Spraying aprox 40K SF Panel system over the same air barrier in a controlled environment indoors throughout the dead of winter moving the project forward. SPF offered a superior insulation solution and meet all the strict regulations for dimensional stability, flammability and durability in the rain screen /cavity wall. Special thanks to NCFI for their support throughout this 6 month journey. The lessons learned during the process has helped us as applicators raise the bar on our quality and safety standards.

Benefits of using Foam: Speed of SPF application vs. other insulations, Superiority of SPF vs. other insulations, Ability of SPF to conform to unusual/irregular surfaces
Installer: Matt Andersen, John Kistler, Brian Zarp, Jarod Hoss
Location: Omaha, Nebraska
Type of Job: cavity wall and floor decks
Square Footage of Job: 150,000sq ft
Equipment Used: Graco-Glass Kraft-Putzmiezter
Number of people needed for the Job: 4
Number of days required by the Job: 300
Special Requirements: OSHA
Foam and coatings used: 100 sets of foam and 1000 plus bags of thermal bar

Project Description: This is the biggest hospital in the state of Nebraska for Women. Project is over 130 million to build and is going on 2 years of construction. From our knowledge it has been the biggest foam job in the state. Our company has about 1 million in the project and a little over a years worth of time. Because of this project we have been doing all of the medical commercial construction projects with foam in our area and have received other awards for our company in the past year. With this project and its location has done a big impact for our area in the education of spray foam and now other have started in the business and the work of foam is growing.

Benefits of using Foam: Closed cell BASF Foam Enterprises was the selection for the foam used to be installed on all of the pre-cast and outside underside sofits for the insulation and moisture control for the building.

2010 SPFA Industry Excellence Awards
Category: Commercial Wall Foam
Installer: Raul Arrellano  
Location: Plains, Texas  
Type of Job: roof insulation  
Square Footage of Job: 87,000  
Equipment Used: Graco h20/35 / Premier pump for the silicone  
Number of people needed for the Job: 17  
Number of days required by the Job: 135  
Special Requirements: Finishing prior to school starting back up  
Foam and coatings used: BaySystems 3.0 foam, BaySystems polyurea, and BaySystems white silicone

Project Description: This project was unique in many ways. The system Brazos applied was a 3” pass of foam followed by polyurea and then coated with silicone. This unique system was specified because of the extreme weather that is prone to this part of the country. Northwest Texas sees weather on both ends of the spectrum as well as severe hail storms. This roof had been ravaged by hail storms over the years and so Brazos scarified 3” of foam off of the roof and applied the above system while battling the winds of west Texas. There was no spraying on this job without a screen. The customer was so pleased with the exemplary work of Brazos, the scope of work was expanded creating an additional 3 weeks of work.

Benefits of using Foam: The benefits of using foam on this application are hands down the R-value achieved to protect against the extreme summertime temperatures, and the sustainability of this system. This roof will last many years to come and with proper maintenance will protect the interior contents of this schoolhouse.

2010 SPFA Industry Excellence Awards  
Category: Roof Foam > than 40,000 ft sq.