

Earning LEED Double Platinum and How BASF's Spray Polyurethane Foam Contributed

 **BASF**

The Chemical Company



Achieving LEED Double Platinum

Building

- BASF North American Headquarters

General Contractor

- Turner Construction Company

Building Profile

- 325,000 square foot office building
- 1,400 employees
- Home of the BASF Innovation Center
- Open and collaborative work environment

Challenges

- Achieving the highest LEED® certification
- Working along with all the other trades during headquarters building construction

In early 2010, BASF and the Rockefeller Group began working together on plans for the new North American headquarters building in Florham Park, NJ. BASF's broad construction product portfolio helped in achieving LEED Double Platinum certification.

LEED® (Leadership in Energy and Environment Design) is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics and in the five green design categories that matter most: sustainable sites, water efficiency, energy and atmosphere, materials and resources and indoor environmental quality. The LEED rating system offers four certification levels for new construction—Certified, Silver, Gold and Platinum. Our goal was to achieve the Platinum distinction, the highest LEED status a building

Benefits of ELASTOSPRAY® Spray Polyurethane Foam (SPF) Roofing Systems

- Improved building energy efficiency and indoor environment
- Longer lifespan than typical roofing systems
- Increased occupant comfort
- Highly resistant to severe weather conditions
- Minimal maintenance
- Full System Warranty

Results Achieved

- Survived Hurricane Sandy with no leaks or issues

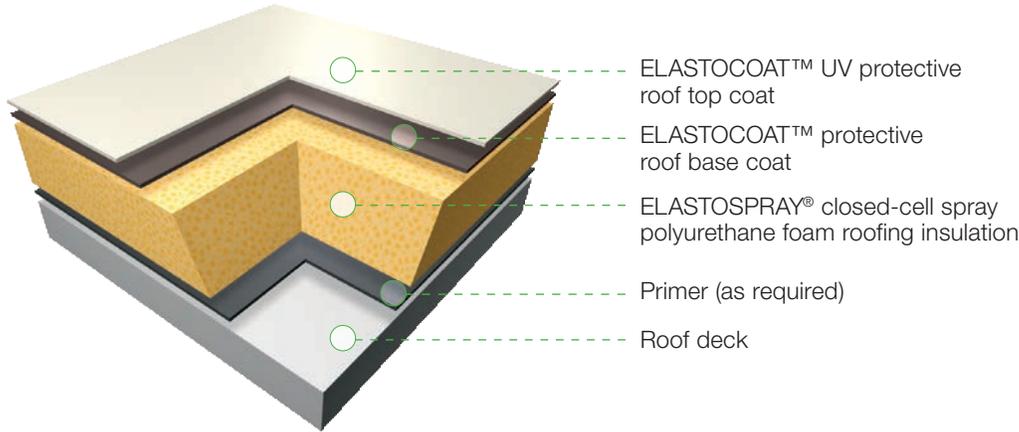


The Innovation Center at BASF's NA headquarters showcases BASF chemistry that goes into products ranging from agriculture, automotive, consumer goods and construction materials.

can achieve. By achieving LEED Double Platinum, the building became the first and largest office building in New Jersey with this certification. BASF's participation in the technically rigorous LEED process was voluntary and our chemistry went into the new building to ensure that building materials are sustainable, environmentally responsible and contribute to energy efficiency, durability, indoor air quality and human comfort.

The Project

Why Choose ELASTOSPRAY® Spray Polyurethane Foam Roof



Multiple polyurethane products were used throughout construction, all contributing to the LEED Double Platinum status. When plans to install the roof of this 325,000 square foot building began, the only option was ELASTOSPRAY spray applied polyurethane roofing system, not because it is a BASF product, but because it's one of the highest rated roofing systems available when it comes to R-value, high wind resistance and overall energy efficiency.

There are multiple benefits in choosing a spray polyurethane foam roof:

- The high R-value of the foam provides for a more energy efficient and comfortable indoor environment, with lower energy costs.
- The seamless application provides for a leak free roof; and with a closed-cell content greater than 90 percent, the building has an increased structural strength.
- The durable ELASTOSPRAY roofing system offers a lifespan of 20 to 30 years with minimal proper maintenance.

The spray polyurethane foam roof was coated with ELASTOCOAT™ protective coating. Elastomeric protective coatings are durable and resilient, providing

a seamless weatherproofing membrane that can be applied directly over SPF roofs or metal roofs.

As a sustainable roofing system, ELASTOSPRAY technology was named one of the preferred supplier products of the Clinton Climate Initiative (CCI). The CCI was created by the William J. Clinton Foundation to create advanced solutions to the core issues driving climate change.

ELASTOSPRAY wasn't the only SPF product used in the headquarters building. WALLTITE® insulating air barrier system was used in various areas throughout the building to provide maximum energy efficiency, durability, comfort, health and safety for the occupants.



Contractor Profile

Company: Hughes Urethane Construction Co., Inc.

Location: Southampton, PA

Experience: 35 Years Spray Polyurethane Foam and Coatings Applications

When contractor Bill Hughes of Hughes Urethane Construction Co., Inc. was awarded the project of spraying the headquarters roof, the biggest challenge was to complete the roof while working around other trades. Bill and his crew had to quickly install the first layer of spray foam in order to seal the decking and allow other trades roof access. Overall, the project took approximately six months to complete. Typically, a spray foam roofing application on a new construction build takes approximately 1-2 months to install. However, with the complexity of the construction and numerous other trades needing roof access for their own installation, the timeline increased.

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“Our new headquarters stands as a tangible example of how BASF creates chemistry for a sustainable future. By incorporating the latest technologies and materials with smart design and sophisticated ergonomics, we will be protective of the environment while providing 1,400 employees with a healthy and safe work atmosphere where they can even better cooperate and collaborate.”

“By utilizing a combination of BASF-enabled insulating materials, low VOC coatings, sustainable concrete technologies and other BASF products, we have built a North American headquarters with a remarkable sustainability profile.”

— Hans Engel, Chairman and CEO of BASF Corporation