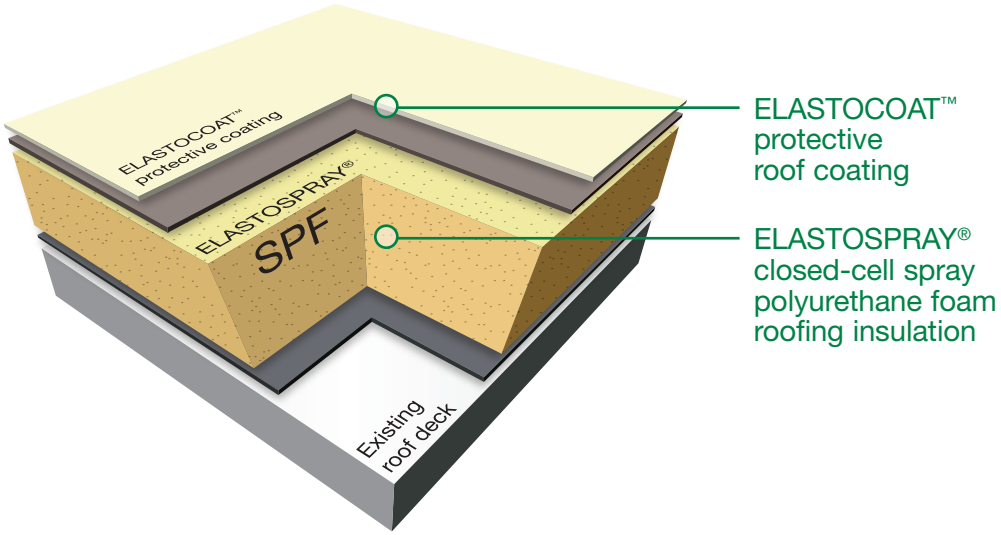
ELASTOSPRAY®

Polyurethane Foam Roofing Systems

the lowest lifecycle cost roof



BASF offers ELASTOSPRAY® high-performance, spray-applied polyurethane foam (SPF) roofing systems for improved building durability and energy efficiency, coupled with the lowest lifecycle cost.

Seamless and self-flashing, ELASTOSPRAY SPF eliminates thermal bridging and adds its superior insulation properties for improved building energy efficiency and indoor environment. When combined with appropriate ELASTOCOAT™ UV-resistant reflective coatings, some systems are ENERGY STAR® compliant.

Sustainable ELASTOSPRAY roofing can be applied directly to the existing substrate in 95 percent of retrofit cases[1], eliminating the cost of tear-off and reducing waste to landfill. It offers a lifespan of 20 to 30 years with minimal proper maintenance. It is also a renewable system. While BUR and single-ply membrane systems must be removed and replaced after their usable lifespan (an average of 10-15 years), ELASTOSPRAY can be recoated and renewed for many more years of service.

Leak-free ELASTOSPRAY SPF roofing systems combine long-term durability and minimal maintenance. A lifecycle cost analysis study[2] shows SPF offers a cost advantage of 13-56 percent over membrane roofing systems. The study attributed the SPF advantage to several factors:

- No tear-off and disposal costs
- Annual net energy savings from superior insulation and reflective coatings
- Consequential damages due to leaks: zero
- Recoating costs less than replacing a membrane system

BASF roofing systems use ZONE3® zero ozone-depleting blowing agent technology. The award-winning BASF Eco-Efficiency Analysis assesses total cost and ecological impact over the product lifecycle to benchmark current performance and get insight for future improvements.

BASF

The Chemical Company

Criteria	ELASTOSPRAY®	Built-Up	Single-Ply
Weather Protection	■ Resists water migratration through the closed-cell foam ■ Improved slope-to-drain ■ High wind uplift resistance ■ No deck penetration ■ 40 years of proven performance	■ Joints and seams can allow water migration ■ Loose aggregate can become projectiles ■ Expands and contracts ■ Becomes brittle	■ Ponding frequent ■ Leaks hard to locate ■ Extensive deck penetrations ■ Newer systems (lack of long-term field experience) ■ Lots of seams
Energy and Comfort	■ Lower heating and cooling costs ■ No thermal bridging ■ Highest R-value insulation ■ Lower roof temperatures, reducing thermal stress ■ Reflects solar radiation ■ Improved occupant comfort	■ Temperature build-up on roof and below ■ Indoor environment more difficult to condition	■ Temperature build-up on roof ■ Indoor environment more difficult to condition
Installation	■ Usually no costly tear-off ■ Fast installation ■ Fully adheres to almost any substrate ■ No fasteners, no welding, no gluing ■ Lower labor cost ■ Conforms to irregular shapes, can be custom sloped ■ Simplified flashing and details	■ Major construction ■ Tear-off and waste disposal usually required ■ Irregular shapes difficult ■ More labor intensive ■ Costly	■ Irregular shapes difficult ■ Numerous fasteners add expense ■ Seams and terminations are potential leakage points ■ Flashings difficult
Maintenance and Repair	■ Minimal maintenance ■ Renewable with simple recoats	■ Major reconstruction needed ■ Costly and frequent ■ Difficult to inspect and repair ■ Leaks hard to locate	■ Non-renewable ■ Torn off at end of life cycle ■ Difficult to inspect and repair

The ELASTOSPRAY SPF roofing system outperformed traditional insulation materials in eco-efficiency on its test scores.

The National Roofing Contractors Association describes SPF as one of the best roofing systems for flat, unusually shaped or low-slope roofs. BASF ELASTOSPRAY SPF roofing systems have received a variety of fire, wind uplift and hail resistance approvals. For more information, please visit www.spf.basf.com.

BASF offers a complete Engineered Building Envelope system, including spray-applied polyurethane foam, a full system warranty and a single source supply of silicone, urethane, and acrylic coating solutions for the commercial roofing market.

As demand for sustainable construction materials and applications continues to grow, BASF offers new cost-effective solutions, developed at extensive R&D facilities around the world.

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[1] SPF installs directly on top of existing substrate in 95% of BASF re-roofing projects.
[2] Michelsen Technologies LLC conducted the study according to ASTM E 917-02 Standard Practice for Measuring Lifecycle Costs of Building and Building Systems.