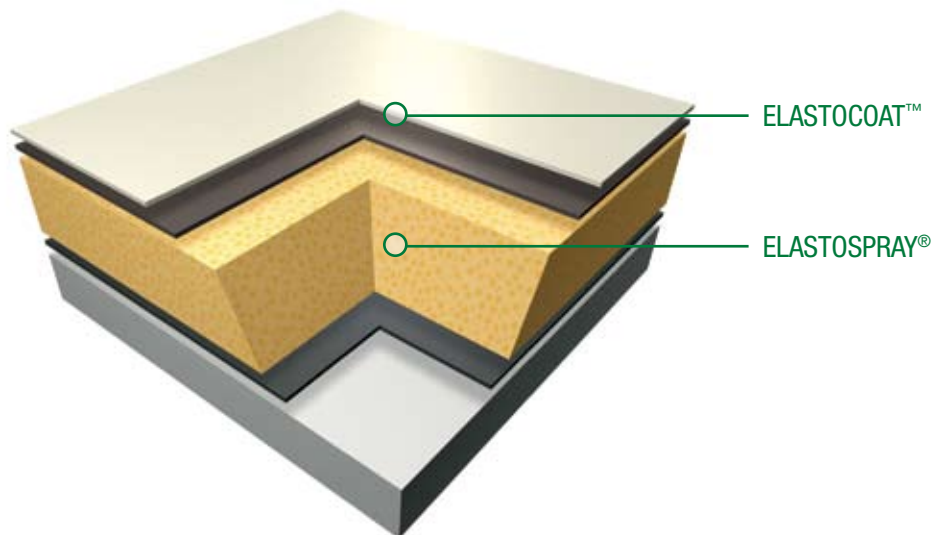


ELASTOSPRAY®

Polyurethane Foam Roofing Systems

the lowest lifecycle cost roof



BASF Polyurethane Foam Enterprises LLC offers ELASTOSPRAY® high-performance, spray-applied polyurethane foam 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. A 1985 study by Gerald Scott P.E. of Texas A&M University showed significant energy savings on 27 different buildings on the campus that had received an SPF roof from 1980 to 1984. The University was able to recoup the complete cost of the roof application through energy savings in an average of 4.5 years.

Sustainable ELASTOSPRAY roofing can be applied directly to the existing substrate in 95 percent of retrofit cases¹, 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 re-coated and renewed for many more years of service.

Leak-free ELASTOSPRAY SPF roofing systems combine long-term durability and minimal maintenance. A recent lifecycle cost analysis study² 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
- Re-coating costs less than replacing a membrane system

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

Helping Make
Buildings Better™


The Chemical Company

BASF Polyurethane
Foam Enterprises LLC

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Criteria	ELASTOSPRAY®	Built-Up	Single-Ply
Weather Protection	<ul style="list-style-type: none"> Water cannot migrate through closed cell foam Improved slope-to-drain High wind uplift resistance No deck penetration 30 years experience 	<ul style="list-style-type: none"> Joints and seams allow water migration Loose aggregate can become projectiles Expands and contracts Becomes brittle 	<ul style="list-style-type: none"> Ponding frequent Leaks hard to locate Extensive deck penetrations Newer systems (lack of long-term field experience) Lots of seams
Energy and Comfort	<ul style="list-style-type: none"> Lower heating and cooling costs No thermal bridging Highest R - value insulation Lower roof temperatures, reducing thermal stress Reflects solar radiation Improved occupant comfort 	<ul style="list-style-type: none"> Temperature build-up on roof and below Indoor environment more difficult to condition 	<ul style="list-style-type: none"> Temperature build-up on roof Indoor environment more difficult to condition
Installation	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Major construction Tear-off and waste disposal required Irregular shapes difficult Joints unreliable Expensive labor Costly 	<ul style="list-style-type: none"> Irregular shapes difficult Numerous fasteners add expense Potential leakage points Flashings difficult
Maintenance and Repair	<ul style="list-style-type: none"> Minimal maintenance Renewable with simple recoats Simplified flashing and details 	<ul style="list-style-type: none"> Major reconstruction needed Costly and frequent Difficult to inspect and repair Leaks hard to locate 	<ul style="list-style-type: none"> Non-renewable Must be torn off at end of life cycle Difficult to inspect and repair

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

BASF Polyurethane Foam Enterprises is the only manufacturer to offer a complete Engineered Building Envelope system, including spray-applied polyurethane foam, a full system warranty and a single source supply of silicone, urethane, polyurea and acrylic coating solutions for the commercial roofing market.

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

¹SPF installs directly on top of existing substrate in 95% of BASF re-roofing projects.

²Michelsen Technologies LLC conducted the study according to ASTM E 917-02 Standard Practice for Measuring Lifecycle Costs of Building and Building Systems.

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