



**BAYSEAL™ ROOFING SYSTEMS:
MEETING THE DEMAND
FOR GREEN PRODUCTS**



A Demand for Green Products

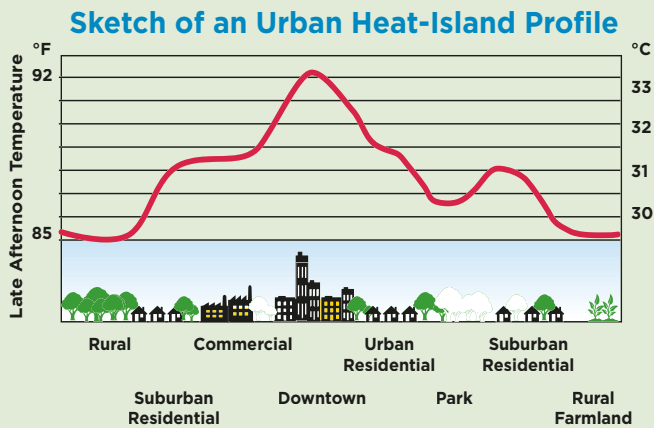
Architects, builders, and owners are creating a revolution in the way new buildings are constructed. This revolution is green building, and has generated demand for a sustainable roofing system that supports energy awareness and conservation. Effective green building can lead to reduced carbon emissions and reduced environmental impact. The Bayseal™ Spray Polyurethane Foam (SPF) Insulation Roofing System manufactured by BaySystems contributes to the green building movement by providing products that can help positively impact the environment.



Conserve Energy

A roof made of Bayseal spray polyurethane foam roofing insulation and Bayblock protective coatings controls both heat loss and heat gain through insulating, reflecting solar radiation, and emitting thermal radiation. This reduces roof temperature extremes, thereby reducing the energy used to cool and heat the structure.

A concrete business in Nebraska recently re-covered its metal roof with spray polyurethane foam and saw an average 63% decrease in its utility bills through decreased energy usage in heating and cooling. Energy reductions such as this will reduce the usage of fossil fuels that are used to make electricity, thereby reducing carbon emissions.



Decrease Urban Heat Islands

Dark buildings and pavement in cities absorb more of the sun's heat during the day and release it at night. This creates the urban heat island effect which results in increased air-conditioning costs, energy use, and pollution.

BaySystems' Cool Roof Technology system uses reflective elastomeric coatings sprayed onto the roofing foam to produce a surface that reflects back up to 90% of incoming solar energy. The result is a cooler building and reduced heating and cooling costs.

Minimize Environmental Burden

Bayseal polyurethane roofing foam adheres to almost any surface which means, in most cases, you can replace your roof without tearing off the old one. This will save money as well as keep building materials out of landfills.

LEED Points

A Bayseal foam roof with Bayblock coating can directly gain LEED points in both reducing the urban heat island effect (SSc7.2) and low-emitting materials (insulation) (MR2.2). In addition, BaySystems roofing products contribute to LEED points in Insulating (EA2), recycled content (MRc4, MRc3), low-emitting materials (sealant) (Eqc4.1) and rapidly renewable material (MRc6). An investment in a BaySystems roof is an investment in green building and climate protection.





Bayseal™

Spray Foam Roofing Systems

Bayseal spray polyurethane roofing foam is a rigid, closed-cell plastic foam insulation that seals, insulates, and protects the roof. This increases roof durability, endures foot traffic, and resists impacts and storm damage. A Bayseal foam roof, when covered with a Bayblock protective coating, forms a complete roofing system that helps ensure sustainability for many years.

Bayblock™

Acrylic and Silicone Protective Coatings

Bayblock is a liquid-applied elastomeric functional membrane applied to Bayseal roofing foam. Bayblock elastomeric roof coatings reflect sunlight and improve emissivity, unlike other roof types which absorb light and turn it into heat. The result is a cooler building and a reduction of the heat island effect.

BaySystems' roofing foam and roof coatings can increase asset life by:

- Sealing leaks & waterproofing
- Blocking substrate-degrading UV light
- Offering flexibility in low-temperature climates
- Reducing risk of wind damage
- Reducing thermal shock to the building
- Adding superior insulation value
- Offering exceptional wind resistance
- Reducing building movement

Industry Certifications and Approvals

Bayseal Roofing Foam Systems meet the following building code criteria:

- 2003 International Building Code – Section 2602.1
- 2003 International Residential Code – Section R314
- UBC Uniform Building Code – Section 104.2.8
- AC12 – Acceptance Criteria for Foam Plastic Insulation, March 1, 2005
- ASTM C1029 – “Standard Specification for Spray-Applied Rigid Cellular Polyurethane Thermal Insulation”



To learn more about the Bayseal Roofing System and Protective Coatings contact a Regional Sales Representative.



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