

# Honeywell Enovate® Blowing Agent



## spray foam roofing

- reduces installation time and cost
- decreases energy expenses compared to alternative solutions
- enhances resistance to wind uplift and hail damage
- provides a waterproof monolithic seamless roof system
- offers highest r-value per inch

**Honeywell**

# insulate and waterproof using advanced wind resistance and energy-efficient technology

Honeywell is a leading supplier of blowing agents for closed-cell spray foam. Blowing agents make foam expand during application. Trapped in the foam cells, they are the main factor in determining R-value.

Enovate® blowing agent, a non-flammable, non ozone-depleting product, is Honeywell's latest innovation for high R-value, closed-cell spray foam. Roof insulation and waterproofing systems formulated with Enovate® provide improved dimensional stability and compression strength when compared to other roof systems. The U.S. government's National Institute of Standards and Technology (NIST) agency documents spray foam roof systems' excellent performance compared to other type roof systems after hurricanes Katrina and Rita.\*



## contractor benefits

Polyurethane spray foam roofing systems that use Honeywell's Enovate® blowing agent provide contractors with the highest quality roofing material and technology on the market today.

Polyurethane spray foam roofs are featured in both the NRCA (National Roofing Contractors Association) and SPFA (Spray Foam Association) low-slope roofing design and application guidelines.

Spray foam roof systems are lightweight and very adaptable to uniquely shaped structures and difficult-to-flash penetrations. Spray foam roofs can be finished in a variety of colors and textures.

Spray foam roof systems allow contractors to save money on both labor and insurance due to reduced crew size, increased production rates and ease of flashing penetrations. These systems allow a contractor to finish a job under budget and ahead of schedule.

A spray foam roof is watertight within 30 seconds of being applied to a dry, clean substrate. In addition, it is a monolithic seamless roof system, reducing the chance of leaks and contractor call-backs.

Spray foam roof systems are fully adhered, with no penetrating fasteners, therefore attaching easily to all types of decks and substrates.

Spray foam formulated with Enovate produces no harmful ozone-depleting effect. Enovate was awarded a 2002 EPA (Environmental Protection Agency) Stratospheric Ozone Protection Award. Spray foam roof systems are both FM (Factory Mutual) and UL (Underwriters Laboratory) listed.

## building owner benefits

Polyurethane spray foam roof systems that use Honeywell's Enovate blowing agent can save building owners both time and money.

Spray foam roof systems are backed by manufacturers' warranties for periods of 5, 10, 15, or 20 years in duration. Another beneficial feature of spray foam roofs is their sustainable nature; they can be re-coated at the end of their warranty period to extend the warranty and the life of the roof investment. Spray foam roofs are an excellent choice for those seeking Leadership in Energy and Environmental Design (LEED) Green Building Rating System certification.

Because spray foam roofs are fast and easy to apply the building owner experiences minimal business interruption and inconvenience during installation.

Because of the unique physical performance characteristics of polyurethane spray foam roof systems, the building owner is provided with added protection from severe weather, such as storms, hail, and high winds.

Polyurethane spray foam has the highest R-value per inch of any roof system, reducing both heating and cooling costs. Spray foam roofs also eliminate thermal transfer in and out of the building at insulation joints and mechanical fasteners.

A spray foam roof with a highly reflective white surface provides superior reflectivity and emissivity properties. These features save the building owner considerably on energy usage associated with heating and cooling the facility, abate urban heat islands and help slow the formation of smog-forming pollutants. Spray foam roof manufacturers are listed on the ENERGY STAR® Roof Products Program. Studies at Oak Ridge National Labs (ORNL) and Lawrence Berkeley National Laboratory (LBNL) document the energy and reflective performance and savings from spray foam roof systems.

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\* NIST Technical Note 1476 - Performance of Physical Structures in Hurricane Katrina and Hurricane Rita: A Reconnaissance Report - June 2006

March 2007

Printed in U.S.A.

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