

# Honeywell Enovate® Blowing Agent



**Closed-cell spray foam insulation  
in commercial buildings**

**Honeywell**

# A Building Envelope System for Durable, Comfortable and Energy-Efficient Businesses

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 thermal insulation performance.

Enovate® Blowing Agent (HFC-245fa) is non-flammable, non ozone-depleting product and is Honeywell's proven technology for closed-cell spray foam. Closed-cell spray foam rapidly expands in place, eliminating energy-wasting cracks and gaps found in other insulation materials.

Closed-cell spray foam can reduce liability because it can help control multiple factors that can negatively affect the durability of a building.

## Building Designer Benefits

With in-depth spray foam knowledge and established relationships with the leading spray foam manufacturers, Honeywell can help designers learn more about the benefits of this unique insulation material.

**Flexibility** - The many unique properties of closed-cell spray foam allow designers the freedom to apply on the interior or exterior of the structure.

## HVAC equipment downsizing -

Tightening the building envelope enables the use of smaller HVAC equipment. Spray foaming the roof will increase energy savings and provide the opportunity to further downsize the HVAC equipment.

## Construction simplification -

Closed-cell spray foam is a superior insulation material that can meet code requirements as an air barrier, water barrier and vapor retarder. It also

eliminates much of the caulking, taping and sealing requirements associated with traditional insulation materials.

**Fast, green installation** - Can reduce construction time because it can fulfill multiple building envelope requirements in one monolithic spray. It reduces construction waste because it is sprayed on-site and is efficiently transported as bulk liquid.

**Wide range of applications** - Wood & metal framed walls either between the studs or on the exterior sheathing, exterior on block walls, ceilings, floors, underside or on top of roofs/attics, crawl spaces, basements and foundations.

## Building Owner Benefits

Because of its unique set of benefits, discerning commercial building owners now want to learn more about closed-cell spray foam insulation.

**Higher energy efficiency** - Exceptional air sealing and thermal insulation performance virtually eliminates drafts and makes it possible to maintain a more constant indoor temperature, resulting in heating and cooling cost savings.

**Won't shrink or settle** - Over time, closed-cell spray foam maintains its size and thickness, and remains bonded to other construction materials, providing an impermeable air barrier for walls, floors and ceilings.

## Improved indoor air quality -

The seamless air barrier helps prevent uncontrolled outdoor air infiltration and the penetration of dust, pollen and other allergens.

**Sound barrier** - Spray foam can help reduce noise transfer and sound penetration because of its air barrier characteristics.



**Improved moisture and condensation control** - Closed-cell spray foam offers superior performance in resisting moisture transmission and condensation because of its inherent moisture resistance and low vapor permeance.

## Increased structural strength -

Research performed by the National Association of Home Builders has shown 2x4 stud walls can support up to three times greater racking loads (structural resistance to wind) with closed-cell spray foam.

**Excellent roofing material** - Closed-cell spray foam roofing systems create a monolithic, seamless system adaptable to any roofing configuration. The excellent thermal performance, moisture resistance, self-flashing application, superior adhesion and impact resistance of closed-cell spray foam provide the highest quality roofing technology available.

**Note:** Because spray foam formulations vary from manufacturer to manufacturer, interested designers and building owners should consult the spray foam specification sheets to understand the exact properties. Savings vary. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power.

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