



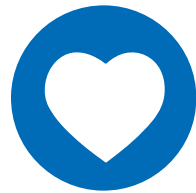
# BENEFITS TO LAST A LIFETIME

Johns Manville is proud to manufacture a family of high-performance, high-yield spray polyurethane foam (SPF) insulation solutions that create more comfortable and energy efficient homes.

**Investing in SPF insulation has numerous long-term positive effects for the life of your home, whether you're building new or renovating your existing home:**



Eliminate drafts and maintain the desired temperature more easily where installed



Creates an exceptional air barrier that can help keep dust and pollen out of your home — a possible welcome benefit for households with allergy sufferers<sup>1</sup>



The EPA estimates that homeowners can **save an average of 15%** on heating and cooling costs by air sealing their homes and adding insulation in attics, floors over crawl spaces, and accessible basement rim joists<sup>2</sup>



Increase the resale value of your home



Relieve noise pollution both from outside and inside the home

**Closed-cell SPF insulation provides the following additional benefits:**



Increase structural strength whether applied to walls or as part of roofing assemblies\*.<sup>3</sup>



Increased strength and shape retention under duress\*.<sup>4</sup>

## Common Air Leaks



## BUILDERS

Using SPF in new construction has many benefits in both the short term and long term. **With JM's complete line of SPF solutions, you can:**

- Meet or exceed code with less product thickness
- Reduce construction time because spray foam fits into hard-to-reach places and can be applied directly onto existing roof coverings, which could eliminate the need for costly and time-consuming tear-off and replacement<sup>5</sup>
- Take advantage of tax incentives, Energy Star, LEED and NAHB Green Building Certification
- Provide your homebuyer customers with the long-term benefits of SPF

## ARCHITECTS

SPF can allow you to design and specify cost- and energy-efficient buildings. **SPF from JM provides:**

- Highest R-value (per inch and in 2x4 wall) of any common home insulation
- One product to achieve an air barrier, vapor barrier and highly-effective insulation where installed\*
- Higher R-values per inch to allow for increased design flexibility
- Stronger wall assemblies by increasing their racking strength\*
- Design flexibility because it expands to fill all gaps and voids with an air barrier where installed, even in hard-to-reach areas

## BUILDING OWNERS

**Low-maintenance SPF from JM** can help you meet energy efficiency requirements, whether you're retrofitting an existing building or starting from the ground up:

- Reduce heating and cooling bills during both the heating and cooling seasons through energy efficiency
- Improve the comfort of occupants with fewer drafts, less noise pollution, and reduced allergens and other irritants in the air<sup>1</sup>
- Increase the structural strength and durability of the building\*
- Use fewer products for equal or better results than using other types of insulation
- Provide energy efficiency, durability, leak-resistance and wind protection for comfortable, draft-free homes and buildings

A wall with spray foam insulation has a

# HIGHER RACKING STRENGTH

or ability to maintain its shape under duress, than a wall assembly without spray foam.<sup>6</sup>

A typical 2,500-square-foot home has more than a half mile of cracks and crevices.

**Unsealed, about 1/3**

of the air leakage in a home occurs through the floors, walls and ceilings.<sup>7</sup>

If each of the estimated 113 million single family homes in the United States used SPF, Americans could save up to

# \$33 Billion

in energy costs each year.<sup>8</sup>

SPF insulation is **highly resistant to floodwater damage** — able to survive wetting and drying, and may be cleaned after a flood to render it free of most harmful pollutants.<sup>9</sup>

\*Closed-cell SPF Products only





JM Corbond III® Closed-cell SPF



JM Corbond MCS™ Closed-cell SPF



JM Corbond® Open-cell SPF



JM Corbond® Open-cell Appendix X SPF



Hybrid Solutions

**Product Information**

**Advantages**

**Technical Information\***

**JM Corbond III® Closed-cell SPF**

Premium closed-cell SPF insulation that offers superior thermal performance, advanced air isolation and excellent moisture control.

**Use It For:** New construction, remodels, basements, commercial buildings and many other applications.

Fast, easy and adaptable, it can be applied at temperatures as low as 20°F and can achieve R-21 with only 3" of materials in a 2x4 stud cavity. As one of the most advanced insulation solutions, it offers climate isolation between indoor and outdoor environments where installed.

**R-7.0 at 1"**  
**2.0 pcf Nominal Density**

**JM Corbond MCS™ Closed-cell SPF**

Multi-climate closed-cell SPF with superior thermal, air and moisture performance.

**Use It For:** New construction, remodels, basements, commercial buildings and many other applications.

Provides superior thermal, air and moisture isolation at a maximum lift thickness of 2" per pass. As one of the most advanced insulation solutions available, it provides complete climate isolation between indoor and outdoor environments where installed.

**R-6.8 at 1"**  
**2.1 pcf Nominal Density**

**JM Corbond® Open-cell SPF**

Lower density, nonstructural open-cell SPF that delivers incredible yield at an excellent value while still providing important air isolation, R-value and acoustical performance.

**Use It For:** Walls, floors, unvented and vented attics and ceilings.

Offers most of the thermal performance and installation benefits of closed-cell spray foam at a lower cost. Expands 100+ times its initial volume to seal all voids, gaps and crevices to virtually eliminate any air leakage where installed.

**R-3.8 at 1"**  
**0.5 pcf Nominal Density**

**JM Corbond® Open-cell Appendix X SPF**

Open-cell SPF that meets AC 377 NFPA 286 Appendix X requirements for application without an ignition barrier in attics and crawl spaces.

**Use It For:** Walls, floors, unvented and vented attics, ceilings, floors and crawl spaces.

Delivers incredible yield at an excellent value while still providing important air isolation, R-value and acoustical performance. Saves installers time and money on each job because it does not require a second pass for an ignition barrier in attics and crawl spaces.

**R-3.7 at 1"**  
**0.5 pcf Nominal Density**

**Hybrid Solutions**

Combines closed-cell SPF with JM Formaldehyde-free™ fiber glass batts or rolls, or with JM Spider® blow-in fiber glass.

**Use It For:** Walls, floors, unvented and vented attics, ceilings, floors and crawl spaces, as well as commercial applications.

Provides advanced performance at a better value. Built-in air and moisture barrier that fills all gaps and voids.

Connect with us:



800-654-3103

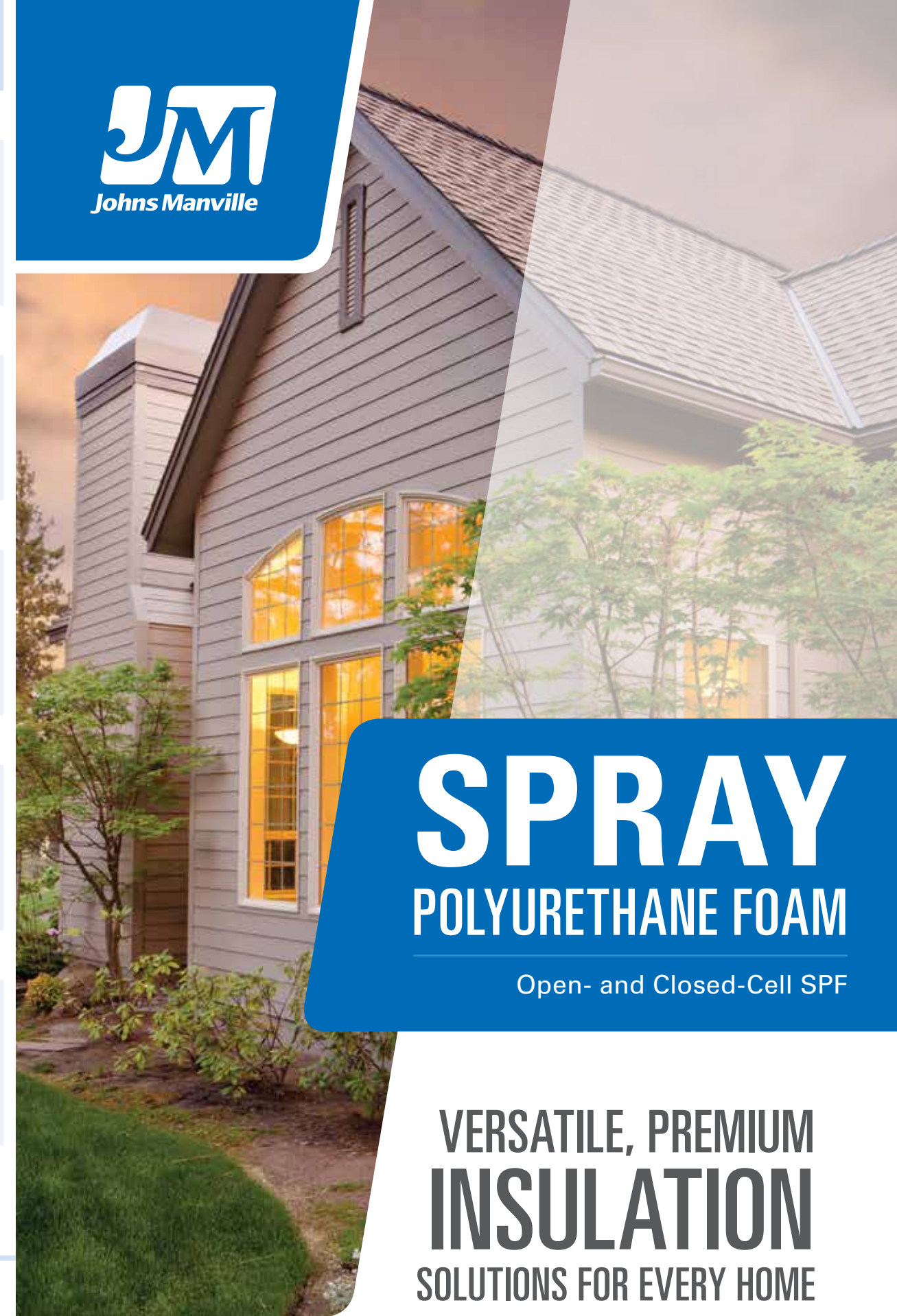


www.JM.com

1 WhySprayFoam.org/Homeowner  
2 U.S. Environmental Protection Agency Energy Star, "Methodology for Estimated Energy Savings from Cost-Effective Air Sealing and Insulating"  
3 Mason Knowles, "SPF Beyond Energy Insulation," Modern Materials, 2006

4 "SPF Research Report: Racking Strength," CUFA  
5 WhySprayFoam.org/Builders  
6 WhySprayFoam.org/Building-Strength  
7 Air Barrier Association of America  
8 American Chemistry Council, Spray Foam Coalition

9 "Flood Damage-Resistant Materials Requirements," FEMA Technical Bulletin 2, 2008  
\* R-value test method: ASTM C518 (°F·ft²·h/BTU); Density test method: ASTM D1622



**SPRAY  
POLYURETHANE FOAM**

Open- and Closed-Cell SPF

**VERSATILE, PREMIUM  
INSULATION  
SOLUTIONS FOR EVERY HOME**