



## **FAQ: 2.0 lb Closed Cell Foam Insulation**

### ***1. What is the spray foam insulating air barrier system?***

Spray Foam is a closed cell, spray-applied polyurethane foam (SPF) system that creates a seamless, insulating air barrier.

### ***2. How is it applied?***

SPF is a two component product that when combined forms a dense, hard, insulating material. The dense material is created when the "A" Iso Component is mixed with the "B" Resin Component. Once the two chemicals are combined through a high heat, high pressure equipment system, a chemical reaction occurs which causes the material to harden within 3-5 seconds.

### ***3. What equipment is required?***

Spray Foam insulation must be installed with specific spray-applied foam application equipment. Chemical Design Corporation offers a selection of spray foam equipment from leading manufacturers. For more questions regarding equipment, please call Kevin Sosebee at **800-578-8555**.

### ***4. What is its insulation R-value?***

Closed cell spray foam insulation has an effective R-value of 6.0 per inch.

### ***5. Does spray foam technology control air leakage?***

Spray Foam is certified to be an air barrier at an application of 1.5 inch thickness. Since spray foam is applied directly to the substrate and fills in all cracks, air can not flow around or behind the insulation system. Spray foam maximizes its insulation properties by eliminating convection loops through and behind boards. Spray foam provides a fully adhered, seamless air barrier insulation system.

### ***6. What are the differences between closed cell and open cell foams?***

There are a couple of major differences between open and closed cell technology. Closed cell spray foams offer closed cell content of 90 percent, whereas open cell foams offer 60 percent open cell technology. Closed cell insulation systems offer higher R-values over open-cell systems. This translates into lower heating and cooling cost for the homeowner. Lastly, another major difference is that closed cell technology is air and vapor impermeable, eliminating mold growth, while open cell allows more vapor into the building envelope.



