VersiFoam®

Polyurethane Spray Foam

VersiFoam® makes spray foam application more effortless than ever. Our portable and disposable low-pressure spray foam insulation systems are the ideal solution for insulating, air sealing, sound dampening, condensation control, caulking and void filling. Built for both commercial and residential use, VersiFoam® will ensure that every job, no matter the size, is done right every time.

LOW GWP FORMULA

Made in USA

VERSIFOAM.COM

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Value in VersiFoam®

A versatile and high-performance foam insulation solution. From its exceptional efficiency to its adaptability, this page explores the unique attributes that make VersiFoam® an incredible choice for insulation needs.

High R-Value

Closed cell polyurethane spray foam has a significantly higher R-value than other types of insulation. With VersiFoam®, you can maximize R-value in small spaces and still be easily insulated to today's energy efficiency standards.

Excellent Air Sealant

The weather may change, but VersiFoam® always performs. Closed cell spray foam provides an airtight barrier by blocking airflow through cracks and fissures. At 18°F with 15 mph winds, independent testing showed a minimal drop from 19 to 18 in closed cell R-value, whereas traditional fiberglass batt insulation dropped from 19 to 7.

Energy Efficient

With any structure, air continuously moves through the building envelope's holes, cracks, and fissures. The U.S. Department of Energy states that one-third of this air comes through ceiling, wall, and floor openings. When sealed with VersiFoam®, energy efficiency increases through reduced thermal transfer.

Pest Resistance

There's no better way to block insects and rodents from getting into a building than by sealing off all the holes and cracks in the structure. VersiFoam® helps cut off access for pests, giving you a cleaner, healthier home or commercial environment.

Low Permeance

Prevent moisture damage with VersiFoam®. Given its incredibly low permeability, closed cell polyurethane spray foam reduces condensation in the building envelope and protects against mold and mildew growth, extending the life of the structure.

Personal Comfort

In addition to preventing air infiltration, spray foam insulation is a barrier to dirt, allergens, pollutants, pests, mold and moisture, increasing occupants' overall comfort and health.

Structural Advantage

Closed cell spray foam insulation adds to the structural integrity of a building. High-density foam can be walked on or nailed into.

Extreme Tolerance

Cured VersiFoam® tolerates temperatures from -250°F to +250°F. This makes them ideal for insulating piping systems.

Portability

Facility logistics often make installation with conventional spray foam machinery impractical or impossible. VersiFoam® is easily transported anywhere, anytime, and without causing undue disruption to day-to-day operations.

Versatility

Commonly used as an artistic medium, VersiFoam® has been featured everywhere from neighborhood haunted houses to theme parks and major motion pictures. It can be molded, carved, sanded, cut, shaved, painted or covered in polyester resin.

Spray Application

VersiFoam® is a spray-applied product—perfect for applications on irregular surfaces and in spaces where traditional insulation is inadequate, like corrugated steel buildings, pipes, tanks, and ductwork.

How to Use VersiFoam®

To operate any of the medium or large VersiFoam® spray foam systems, open the valves on both tanks, click a nozzle into place, disengage the safety, point the dispensing gun at your application target, and pull the trigger. It's that easy.

1. GEAR UP.

2. HOOK UP.

3. SPRAY.

Temperature

Both chemical and target surface temperatures should be between 65-90°F for optimal performance. Warmer or cooler temperatures may result in yield, adhesion, and foam quality issues. There is a temperature strip on all medium and large VersiFoam® systems to ensure the chemicals are in the recommended range pre-application.

Spray Pattern

Stand 18-24 inches from your target for the best spray pattern. Control the velocity of the chemical flow by how far you pull the trigger on the U-Control dispensing gun. Pull the trigger all the way back and then ease it forward until you find the position that gives your desired results.

How to Cover

Spray a strip around the perimeter of the area you wish to cover. Fill in the space from top to bottom with a back-and-forth wrist motion. The faster you move, the thinner the foam layer.

Expansion Time

Closed cell spray foam will expand up to 6 times its original volume. Open cell spray foam will expand up to 10 times its original volume. Be careful not to apply too much in one pass.

Both the Slow Rise and Open Cell systems will be fully expanded and tack-free to the touch in approximately 2-3 minutes. All other formulations will be fully expanded and tack-free in 30-40 seconds.

Additional Layers

We recommend applying in multiple passes if your application requires a thickness of over 2 inches. Too much foam in one pass may result in a reduced yield, uneven surface, or sagging foam before full cure.

Avoiding Clogs

If you pause during your application for 30 seconds or longer, the foam may cure in the dispensing gun nozzle, which will cause it to clog. Should this happen, simply replace the nozzle with one of the spare nozzles included with your VersiFoam® system.

Personal Protective Equipment (PPE)

PPE is required when applying spray foam. Suggested PPE includes a fit-tested respirator, chemical-resistant clothing, gloves, and safety goggles. Nitrile gloves are included with every system. Refer to the operating instructions for PPE guidelines.

Contact RHH Foam Systems or visit versifoam.com for information on where to purchase VersiFoam®.

Browse Our Product Line

VersiFoam® has a comprehensive product line of expandable, low-pressure, polyurethane spray foam systems. Portable and ready to use, these systems are available in various formulations and sizes to best suit your project's specific insulation needs.

System 1 Standard Density (1.75 pcf) Closed Cell Spray Foam

This system is designed to be used on the same day that it is opened. It is available in both the standard and flame-retardant formulas.

System 1: 12 ft.² @1" or 1 ft.³

Standard Density (1.75 pcf) Closed Cell Spray Foam

These systems are the most commonly used in the VersiFoam® product line. These systems are available in standard, flame-retardant, and Slow Rise* formulas.

System 9: 108 ft.² @1" or 9 ft.³
System 15: 198 ft.² @1" or 16.5 ft.³
System 50: 600 ft.² @1" or 50 ft.³

High Density (2.8 pcf) Closed Cell Spray Foam

These systems are best suited for applications requiring a denser material, such as roof repairs, cryogenic applications, and structures with load-bearing requirements. They have a low moisture absorption rate and excellent compressive strength.

System 10: 120 ft.² @1" or 10 ft.³
System 33: 396 ft.² @1" or 33 ft.³

Low Density (0.75 pcf) Open Cell* Spray Foam

These systems are high yield, flame retardant, with a lower R-value and higher permeability than closed cell spray foam. They offer a cost-effective solution to insulate, control air movement, and reduce sound transmission.

System 31: 380 ft.² @1" or 31 ft.³
System 100: 1,200 ft.² @1" or 100 ft.³

*The Slow Rise and Open Cell systems have a delayed expansion time of two to three (2-3) minutes–useful in applications where foam must flow to distant areas before solidifying.

What's included in the box?

Small Handheld Kit (System 1)

2 chemicals in aerosol cans, 1 thumb-roll dispenser and 2 nozzles

Medium Kits (Systems 9, 10, 15 & 31)

2 chemical components, 10 ft. gun/hose assembly, 10 nozzles, 3 fan spray tips, nitrile gloves, wrench, petroleum jelly

Large Kits (Systems 33, 50 & 100)

2 chemical components, 15 ft. gun/hose assembly, 10 nozzles, 3 fan spray tips, nitrile gloves, wrench, petroleum jelly

Note: Published yields are based on one-inch (1") thickness, except for the open cell spray foam systems, which are based on two-inch (2") thickness. These yields are theoretical and based on several factors, including ambient conditions and specific applications.

Going Green

VersiFoam® proudly offers insulation systems that do not contain CFCs, PBDEs, or urea formaldehyde. With 0 lb/gal of VOC's in all of our spray foam products, we continue to serve all 50 states amid the state-by-state phasedown of HFC's in the polyurethanes industry.

LOW GWP FORMULA

1. VersiFoam® spray insulation increases energy efficiency with its unique SPF insulation technology, which saves energy and reduces the use of fossil fuels to help decrease greenhouse gases.

2. Our insulation improves air quality by nearly eliminating all toxins, bacteria, mold, and asthma-threatening elements from entering a building.

3. Our easy-to-use applicator reduces waste and increases the lifecycle of a building by preventing moisture and mold from slowly destroying the building's integrity.

Properties

Product Properties

	Unit	Density (pcf)	Yield ($ft.^3$ / $ft.^2$ at 1")	R-Value (at 1")	Closed Cell Content (%)
Small	System 1	1.75	1 / 12	7.7	> 90
	System 1 Flame Retardant	1.75	1 / 12	6.7	> 95
Medium	System 9	1.75	9 / 108	7.7	> 90
	System 9 SR Slow Rise	1.75	9 / 108	7.7	> 90
	System 9 Flame Retardant	1.75	9 / 108	6.7	> 95
	System 15	1.75	16.5 / 200	7.7	> 90
	System 15 SR Slow Rise	1.75	16.5 / 200	7.7	> 90
	System 15 Flame Retardant	1.75	16.5 / 200	6.7	> 95
	System 10 High Density	2.80	10 / 120	7.7	> 90
	System 31 Low Density, Open Cell, Flame Retardant	0.75	31 / 380	4.0	8
Large	System 50	1.75	50 / 600	7.7	> 90
	System 50 SR Slow Rise	1.75	50 / 600	7.7	> 90
	System 50 Flame Retardant	1.75	50 / 600	6.7	> 95
	System 33 High Density	2.80	33 / 396	7.7	> 90
	System 100 Low Density, Open Cell, Flame Retardant	0.75	100 / 1,200	4.0	8

Coverage

		Density (pcf)	Yield ($ft.^2$) by Thickness 1"	1.5"	2"	2.5"	3"	3.5"	4"	4.5"	5"
Small	System 1	1.75	12	8	6	4.8	4	3.4	3	2.7	2.4
Medium	System 9	1.75	108	72	54	43	36	31	27	24	22
	System 15	1.75	200	133	100	80	67	57	50	45	40
	System 10	2.80	120	80	60	48	40	34	30	27	24
	System 31	0.75	380	253	190	152	126	108	95	84	76
Large	System 50	1.75	600	400	300	240	200	171	150	133	120
	System 33	2.80	396	264	198	158	132	113	99	88	79
	System 100	0.75	1,200	800	600	480	40	343	300	267	240

Note: Published yields are theoretical and based on several factors, including ambient conditions and specific applications.

FAQs

How does closed cell VersiFoam® compare to fiberglass and cellulose?

VersiFoam® has approximately twice the R-value, provides an airtight thermal seal, resists moisture and mold, seals hard-to-insulate areas, adds structural stability, and more–leading to significant energy savings and a better return on investment. While more traditional insulating materials like fiberglass and cellulose are less expensive upfront, VersiFoam® offers lasting value.

What sets VersiFoam® apart from other spray foam kits?

Our U-Control spray foam gun provides complete control over how much foam is dispensed based on how hard the user pulls the trigger. This allows the user to distribute spray foam rapidly at approximately 6 pounds per minute or slow enough to write your name with it. That's the key to a consistent spray pattern and surface texture. The metered spray capability also saves on materials and clean-up time.

Are the tanks refillable?

The Department of Transportation forbids the refilling of tanks. Once emptied, the tanks should be disposed of as regular industrial waste inaccordance with local regulations. A sanitary landfill is recommended.

Is VersiFoam® waterproof?

VersiFoam® closed cell systems are water-resistant, but not water-proof. Minimal exposure to moisture will not affect these foams, but the foam may become compromised if submersed for a period of time. The open cell Systems 31 and 100 will absorb and retain water if exposed, and as such, should not be installed in areas of moisture.

Is VersiFoam® temperature sensitive?

Temperature is critical in producing quality spray foam. All medium and large VersiFoam® systems have a temperature strip to indicate the chemical temperature.

Can VersiFoam® be injected into a closed wall cavity?

Application to existing closed walls is not recommended due to the pressure created by expansion. Damage to drywall and plaster will occur if the cavities are overfilled.

Does VersiFoam® qualify as a vapor barrier?

Code requires a vapor retarder on the warm side of building assemblies. A vapor barrier is a Class I vapor retarder (perm. <0.1), which can be achieved with sheet polyethylene, like Visqueen.

VersiFoam® closed cell systems will achieve a Class II (0.1< perm. <1) or Class III (1< perm. <10) vapor retarder rating depending on the specific product type and applied thickness. Different building codes have different vapor retarder requirements (Class I, II, or III).

Does VersiFoam® need to be covered?

By code, polyurethane foam must be covered with a 15 minute thermal barrier. A half-inch of drywall is most commonly used. An ignition barrier may be used for uninhabited areas that are only accessed for maintenance and not used for storage, such as attics and crawl spaces.

Can VersiFoam® be painted?

Once fully cured, the foam can be painted with any product not heavily saturated in MEK (Methyl Ethel Ketone). This should not be an issue with products made for interior or household applications. Aside from MEK concentration, the type of paint used should be determined by the easiest application method (paint, spray, etc.) and the desired finish.

Are there any health hazards associated with VersiFoam®?

VersiFoam® does not contain any urea formaldehyde, VOCs, CFCs, or PBDEs. The use of PPE is required during application. Please see operating instructions for PPE guidelines.

Does a kit need to be used the same day as opened?

Only the System I kits need to be used same day. All larger systems may be shut down and re-used again. If the kit will be used infrequently, a weekly maintenance routine is needed to prevent gun and hose blockage. See the Operating Instructions for weekly maintenance instructions.

Visit versifoam.com/faq to learn more.

VersiFoam® Systems

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