Dow Building Solutions

FROTH-PAK™ Systems by Dow
Increase performance. Increase business. Increase your bottom line.

* Find full ventilation guidelines in the online Training Center at dowbuildingsolutions.com

** Savings based on comprehensive air sealing study involving interval testing

You can explain the comfort and efficiency FROTH-PAK™ delivers or talk about how this higher performance building solution helps improve the value of any structure. But home owners want to know about the return on investment for FROTH-PAK™ products.
Benefits to Occupant

FROTH-PAK™ Systems provide an affordable, easy-to-use solution that can help your business in a variety of ways:

Higher customer satisfaction — FROTH-PAK™ Systems are designed to deliver greater comfort and energy savings and help ensure satisfied customers.

Increased sales — With a growing base of satisfied customers, you have the potential to expand sales, land larger-ticket projects and win business from your competitors.

Fewer callbacks — FROTH-PAK™ Systems are long-lasting and time-tested — meaning you’ll face fewer complaints about drafts or moisture damage.

Meet or exceed requirements — There are new requirements on the books, and FROTH-PAK™ Systems can help you meet and exceed them.

Increased profitability — The bottom line: You can have a greater bottom line.

Benefits to Contractor

For your customers, FROTH-PAK™ Systems help create a more comfortable and efficient environment in four key areas:

Comfort — Building occupants enjoy more consistent temperatures and fewer drafts.

Efficiency — FROTH-PAK™ Systems help the building use less energy, resulting in lower utility bills.

Durability — FROTH-PAK™ Systems reduce air and moisture infiltration, helping to prevent rot, decay and other issues that are potentially harmful to structural integrity.

Health — Helps improve indoor air quality as the result of fewer entry points for dust, dirt, allergens and pests.

Most of your customers probably don’t realize that much of the energy loss in a building comes from unwanted air infiltration through gaps and cracks or that air exchange promotes moisture, a breeding ground for mold and mildew. FROTH-PAK™ helps prevent these issues.

Sources of Energy Loss

<table>
<thead>
<tr>
<th>Sources of Energy Loss</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walls/Framing</td>
<td>22%</td>
</tr>
<tr>
<td>Doors</td>
<td>17%</td>
</tr>
<tr>
<td>Windows</td>
<td>17%</td>
</tr>
<tr>
<td>Air infiltration</td>
<td>2%</td>
</tr>
<tr>
<td>Ceiling</td>
<td>5%</td>
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<tr>
<td>Floor</td>
<td>1%</td>
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</tbody>
</table>

We’ve been very satisfied with the entire process of FROTH-PAK™. The calibration of the tanks is very simple, the wide variety of tips is extremely helpful and the cleanup is easy. Thanks for a great product!

— Cathi Albright
Dr. Energy Saver®
An airtight case for FROTH-PAK™

What is FROTH-PAK™ and why is it the right choice?
Designed for professional use, FROTH-PAK™ is a two-component, chemically cured polyurethane foam that comes either as a sealant or a Class A fire-rated insulation. Both quickly expand to fill cavities, penetrations and gaps greater than two inches. FROTH-PAK™ helps improve the comfort, safety, performance and energy efficiency of any building — and all of those factors can lead to an improved bottom line when satisfied customers recommend you to others.

NOTE: The self-contained portable kits contain everything you need, with no additional gas cylinder or electricity required.

Advantages of using FROTH-PAK™ systems.

Quality
- Simply put, this is one of the highest quality foams on the market, due to:
  - the best yield
  - quickest curing time
- Reduces moisture intrusion, which can lead to mold, mildew, rot and decay
- Provides similar closed-cell foam performance as high-pressure rig-applied products, with less up-front capital investment (refillable kits only)
- Can be used internally or externally, above or below grade, making it the right product for the job
- Bonds to almost any construction surface, including wood, rigid foam, Masonry, metal, drywall and more
- Provides sound damping quality, in addition to its sealing and insulating properties
- Helps keep pests from entering the home or building

Simplicity
- Reduces learning curve since each system uses the same regulators and accessories
- Portable, self-contained, easy-to-handle, all-in-one kits
- Requires no external power source or extra gas cylinders
- FROTH-PAK™ Refill System includes tanks, regulator, hose assembly, gun applicator and anti-crossover gun nozzles
- Low maintenance, with no mixing, minimal setup time and few replacement parts
- Makes it easy to insulate areas that are difficult to reach with traditional fiberglass

Cost Efficiency
- Hansel makes homes and buildings more energy efficient for a minimal initial cost, leading to lower energy costs and more comfortable buildings
- Allows you to offer additional services with a small capital investment
- If you already have spray rigs, FROTH-PAK™ Systems allow you to secure smaller jobs without tying up a rig

High Performance
- INSTA-FLO™ Dispensing Spray Gun is designed to reduce overspray and waste by maintaining on ratio foam
- Minimal cure time, with re-entry allowed after only 1 hour*
- Helps keep pests from entering the home or building
- Provides an effective air barrier in new construction
- Fills cavities, penetrations and gaps greater than 2*
- Two-component polyurethane foam quickly cures in less than a minute
- Provides a high level of insulating R-value on initial application (6.6 per inch Class A) and maintains R-value of 6.1* even when foam ages (FROTH-PAK™ Foam Insulation only)
- Optional Arctic Pak heated hose system allows year-round application in colder climates (refillable kits only)

Let the good flow.

FROTH-PAK™ Systems offer the best dispensers in the industry.

- INSTA-FLO™ Dispensing Spray Gun helps:
  - Reduce overspray and waste by:
    - Controlling flow rate
    - Precisely metering output
  - Protecting against accidental discharge with a failsafe safety mechanism
  - Emptying precisely on ratio, resulting in better foam quality

Let the good flow.

FROTH-PAK™ Foam Insulation

With its Class A fire rating (flame spread index of 25 or less), it can be left exposed in roof/wall junctures up to 6” in height, 2” in depth and unlimited length, and used full-coverage behind a thermal barrier, qualifying as effective insulation for:
- Stud wall cavities
- Cold floors above unheated areas
- Attic hatch
- Wall cavities and around pipes
- Roof/wall junctures
- Rim joints
- Manufacturing and repair of insulated vehicles and containers

FROTH-PAK™ Foam Sealant

Provides a continuous barrier against air infiltration and helps seal out moisture, dust, pests and smoke. Primarily used to seal gaps less than 4” wide in:
- Wall/cavity penetrations
- Electrical, mechanical and plumbing penetrations
- Attic hatch
- Wall cavities and around pipes
- Roof/wall junctures
- Rim joints
- Manufacturing and repair of insulated vehicles and containers

FROTH-PAK™ Foam Sealant is not approved for full coverage.

Depending on the size of your job, and whether you have a dedicated insulation and air sealing business, you can choose either a self-contained, portable kit with a convenient carrying handle or reusable, refillable kits that come in a variety of sizes.

Another benefit: You’ll also realize lower long-term cost of ownership compared to drum and rig systems, due to:
- Less up-front capital investment
- Minimal setup time and less equipment maintenance
- Low-cost replacement parts
- No specialized technician required to maintain/repair
- 1-hour re-entry versus 24 hours with drum foam means you’re on to the next job and your customers can return to the building more quickly

Our products help you create a better building. Our people help you create a bigger business.
**Applications**

Accurate, economical application of spray foam is easier with Dow’s patented anti-crossover nozzles specially designed to help eliminate chemical crossover in FROTH-PAK® Systems. Here are just a few of the features that make our reusable, easy-to-change nozzles the industry’s best:

- **Patented nozzle design** helps reduce potential for plugged hoses
- **Multiple nozzle types** offer a variety of outputs and spray patterns
- **Side wing design** provides quick gun attachment
- **Clear dispensing tips** make it easy to identify used nozzles
- **Tapered design** improves matching for enhanced foam quality

Dow offers the widest selection of nozzle types in the industry today, helping you find the spray pattern, output, and coverage for any job.

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**FILL’ER UP, AGAIN AND AGAIN.**

FROTH-PAK® Refill Systems do the same great insulating and air sealing jobs as FROTH-PAK® Kits but, as the name implies, are refillable so you can use them over and over. They’re great if you are new to spray foam or insulating similar scaling, because they supply closed-cell foam with performance similar to drum systems but help you enter the business without the experience and maintenance of drums and rigs. At the same time, they’re excellent if you already own a spray rig but are looking to secure smaller jobs without tying up a rig.

**How are FROTH-PAK® Refills different than FROTH-PAK® Kits?**

- Bulk steel tanks that are pressurized on-site
- Containers are returnable and refillable, so you can reuse equipment again and again
- Longer, customizable hose lengths make it easier to get to hard-to-reach areas
- FROTH-PAK® Refills are not disposable
- Technical installation and training is required
- Nitrogen is required (not supplied)

**FROTH-PAK® Refill System Benefits**

**Affordable**

- Lower long-term cost compared to drum and rig system
- Less upfront capital investment
- Minimal setup time

**Take the Chill off.**

Don’t let chilly temperatures leave your business out in the cold. The Arctic Pak heated hose system helps maintain consistent temperatures when winter weather comes around. Converting a FROTH-PAK® Refill System is easy with an Arctic Pak Starter Kit that includes:

- Arctic Pak heated hose wrap and controller
- Extended hose length
- INSTA-FLO® Dispensing Spray Gun
- Regulator kit
- Two chemical on/off valves (tank-to-hose)
- Two inline on/off valves (hose-to-dispenser)
- Two replacement cylinder filters

POWERBLANKET® warming equipment also keeps your jobs on schedule during the colder months. Delivering a barrier of insulated heat to the spray foam, POWERBLANKET® creates an optimal application environment. For more information, call Customer Service at 877-598-7407. To order, call 801-456-8013 and refer to the item numbers below:

- **DOW-17** (41-gallon tank heater)
- **DOW-27** (25-gallon tank heater)
- **DOW-60** (60-gallon tank heater)
- **DOW-620** (620- and 650-bf single-component cylinder heater)
- **DOW-200** (200- and 218-bf A & B disposable box heater)
- **DOW-55RR** (Rapid Ramp 55-gallon drum heater)
- **DOW-60** (60-gallon drum heater and thermostatic controller)
- **DOW-GHT** (Digital thermostatic controller)

**Where does FROTH+PAK™ make sense?**

**The short answer: just about anywhere.**

As you know, FROTH-PAK™ Foam Insulation and Sealant Kits quickly expand to fill cavities, penetrations and gaps greater than two inches. So you may think their uses only apply to homes and other buildings. While that’s where the uses begin, it’s not where they end — not even close.

**Applications**

**Insulation**

- Stud wall cavities
- Cold Doors above unheated areas (such as a living area above a garage)
- Rim and band joists

**Seal Within Cavities**

- HVAC duct sealant insulation
- Sealant around copper or PVC pipes and penetrations
- Bathtub/shower base stabilizer
- Fiberglass bathtub repair

**Heating/Ventilating/Air Conditioning**

- Sealant to maintain negative air pressure
- Stud wall cavities
- Ceiling/floor/wall penetrations sealant
- Plumbing wall pipe insulation and support

**More Uses**

**Agriculture**

- Light control and insulation in poultry houses
- Silo and grain storage bin sealant
- Pest control

**Asbestosis Abatement**

- Crack, void and hole sealant
- Sealant for irregular voids
- Sealant to maintain negative air pressure

**Cold Storage**

- Floor seams
- Fluted roof decks
- Wall-to-wall intersects

**Pool and Spa**

- Insulation repair
- Structural support
- Sound damping

**Transportation/Marine**

- EMS vehicles
- Refrigerated truck trailers
- Aircraft
- Rotation applications
- Boats
- RVs
- Elevators, sound damping
- Fiberglass bathtub repair

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POWERBLANKET is a registered trademark of Flatwork Technologies, LLC.
Our products help you build in better performance.

FROTH-PAK™ offers a great solution that can bring great savings. FROTH-PAK™ Systems are a cost-effective way to increase the energy efficiency and value of buildings and, at the same time, can help expand your business and bottom line. It comes as no surprise that one way to increase your profitability is to lower your cost of materials. FROTH-PAK™ Kits and Refills make that easy by offering solutions in a range of sizes to meet your needs. And the value of FROTH-PAK™ grows when you compare FROTH-PAK™ Refills to the big rigs.

- You get closed-cell performance similar to high-pressure, rig-applied products but with less up-front capital investment
- You can leverage your current business and take on smaller jobs without tying up a spray rig
- Training and technical support for FROTH-PAK™ is supplied by Dow

Performance that outperforms the competition.

FROTH-PAK™ Systems stand on their own as an effective way to help improve the comfort, safety, performance and energy efficiency of any building. But it’s only when you see the shortcomings of the competition that you realize how wide the gap is between FROTH-PAK™ and other sealing and insulating solutions.

Fiberglass Batt and Cellulose Insulation
- Fiberglass batts leak air, lose R-value when compressed and promote mold growth when wet
- Involves measuring and cutting, creating potential for inaccuracy
- Cellulose can leave gaps around pipe penetrations, absorb moisture and create additional pockets of air

Mobile Dispensing Cart System
- Non-refillable
- Lower overall costs versus other mobile systems
- Not approved for use in the same places FROTH-PAK™ is — such as roof/wall juncture, roof penetrations, conduit, wall/attic juncture, and duct joints

High-Pressure Rig System
- Lower long-term cost of ownership compared to FROTH-PAK™ due to:
  - Higher up-front capital investment
  - More setup time
  - Higher equipment maintenance and costly replacement parts
  - Requires specialized technician to maintain/repair
  - 24-hour re-entry time for occupants
  - Difficult to cover smaller jobs

Contractors say it best:

- Dow Building Solutions has been a great asset for my company. The training, the support, the service, they’re there for me, helping my business grow. Plus, FROTH-PAK™ has given me my business another source of revenue. I just tell my customers the kind of money they can save on their heating bills, and they see the value.
  — Ken Sheldon
  Metro Home Insulation

More than 65 years of being years ahead.

At Dow, we are constantly creating new and enhanced products to help you stay ahead of codes — and your competition. When you use these products, you’ve backed by the name that is an industry leader in building science and performance. Our team of building-envelope engineers and scientists work with contractors, builders, specifiers, architects and designers to integrate the right solutions for the right applications to maximize thermal, air and moisture management of the building envelope. That way, you’ll begin every project knowing your materials come from an industry leader that continually sets the standard for insulating, protecting and enhancing buildings.

To learn more about our products as well as the benefits of partnering with Dow Building Solutions, contact us at 1.866.583.BLUE (2583) or visit SprayFoamAtDow.com

You can find FROTH-PAK™ safe-handling instructions in the online Training Center at dowbuildingsolutions.com

Our team of experts is here to help you outperform.

With Dow Building Solutions as your partner and product provider, you get all the benefits of working with building-envelope experts. Our team provides an unparalleled level of sales and technical support — combined with industry-leading research and product development — to help you provide better buildings and grow your business. Dow offers the people, knowledge and relationships to address the needs of your business through:

- An in-house customer service team that is trained to support you and your business from your first order — and beyond
- Technical support to help you with any installation or application questions
- Our in-the-field sales team that consults with your team to help ensure you’re offering the best solutions to your customers

With Dow Building Solutions as your partner, your business can:

- Grow your business
- Build confidence
- Create bigger business.
Big job? Small job? Any job.

No matter the size, there’s a FROTH-PAK® Solution to get the job done. Part of being the leader in the fight against air leaks is making sure there’s a solution for any job.

SIZES
FROTH-PAK® Sealant Kits: 12, 20, 200, 620
FROTH-PAK® Insulation Kits: 20, 620
FROTH-PAK® Sealant and Insulation Refill: 127, 60, 120, 350

FROTH-PAK® Foam Insulation Kits

PRODUCT | THEORETICAL YIELD* | BOARD FEET AT 1” THICK | R-VALUE AGE'D (INITIAL) |
---|---|---|---|
FROTH-PAK® 010 | 910 | 6.1-6.6** |
FROTH-PAK® 050 | 620 | 6.1-6.6** |

FROTH-PAK®“ Foam Insulation Refillable Cylinders

PRODUCT | THEORETICAL YIELD* | BOARD FEET AT 1” THICK | R-VALUE AGE'D (INITIAL) |
---|---|---|---|
FROTH-PAK® 17 | 2,100 | Quick | 1.75 | 6.1-6.6** |
FROTH-PAK® 34 | 3,400 | Quick | 1.75 | 6.1-6.6** |
FROTH-PAK® 60 | 7,100 | Quick | 1.75 | 6.1-6.6** |
FROTH-PAK® 120 | 16,110 | Quick | 1.75 | 6.1-6.6** |
FROTH-PAK® 270 | 45,250 | Quick | 1.75 | 6.1-6.6** |

FROTH-PAK®“ Foam Sealant Kits

PRODUCT | THEORETICAL YIELD* | BOARD FEET AT 1” THICK (RT) | R-VALUE AGE'D (INITIAL) |
---|---|---|---|
FROTH-PAK® 10 | 15.2 (4.5) | 6.1-6.6** |
FROTH-PAK® 120 | 192.124 | 5.3 (4.4) |
FROTH-PAK® 200 | 300 (4.8) | 5.3 (4.4) |
FROTH-PAK® 600 | 600 (1.4) | 5.3 (4.4) |

FROTH-PAK®“ Foam Sealant Refillable Cylinders

PRODUCT | THEORETICAL YIELD* | BOARD FEET AT 1” THICK (RT) | R-VALUE AGE'D (INITIAL) |
---|---|---|---|
FROTH-PAK® 17 | 2,000 (4.5) | 5.3 (4.4) |
FROTH-PAK® 34 | 3,340 (4.5) | 5.3 (4.4) |
FROTH-PAK® 60 | 6,840 (16.3) | 5.3 (4.4) |
FROTH-PAK® 120 | 15,400 (25.6) | 5.3 (4.4) |
FROTH-PAK® 270 | 45,250 (13.0) | 5.3 (4.4) |

Included in each FROTH-PAK® Kit
- 1 ISO tank
- 1 Polyol tank
- Gun hoses
- INSTA-FLO® Dispensing Spray Gun
- Anti-crossover nozzles

FROTH-PAK® Refill accessories
- Customizable to fit each job’s needs and size
- Heated hose system available for cold weather use
- Anti-crossover nozzles
- Limit drafts and heat loss
- Decrease load on HVAC system
- Protect structural durability
- Reduce energy consumption
- Reduce temperature fluctuations
- Seal out pests and allergens

Air infiltration accounts for 25%–40% of a building’s energy loss. Closed-cell foams such as FROTH-PAK™ will help reduce energy costs by improving tightness, while open-cell foams such as XPS (expanded polystyrene) will help reduce thermal conductivity.

Outperform the competition with Dow Building Solutions

For more than 65 years, Dow has been a proven industry-leader in below and above grade air sealing solutions. FROTH-PAK® Systems. Since the invention of STYROFOAM™ Brand XPS Insulation, Dow has helped contractors differentiate themselves in the marketplace and build better-performing, energy-efficient homes and buildings for customers. See our latest offerings at dowbuildingsolutions.com

What does it all mean?

The last word on the first name in insulation and sealant.

FROTH-PAK® comes as either a sealant or a Class A fire-rated insulation. Both quickly expand to fill cavities, penetrations and gaps greater than two inches to block air infiltration, enhance thermal performance and manage moisture on insulation jobs of all sizes. FROTH-PAK® helps improve the comfort, health, safety, performance and energy efficiency of any building — and all of those factors can help improve customer satisfaction and, ultimately, your bottom line.

You also benefit from an industry-leading level of training and technical support to help ensure you have everything you need. Plus, we make it easy for you to purchase FROTH-PAK® Systems:
- Through your Dow sales representative
- Dow pays the freight to and from the jobsite on refill containers, and there is no deposit fee

Required Personal Protective Equipment.
- NIOSH-approved full-face or half-mask air-purifying respirator with an organic vapor sorbent and a P95 particulate filter
- Protective clothing or impermeable coveralls, including long sleeves for full-body coverage
- Chemical-resistant gloves (coated with nitrile, butyl rubber, neoprene or PVC)
- Goggles or safety glasses (if not using a full-face respirator)

Not everyone has the same level of training. The quality of your installation can be greatly affected by the skill level of the applicator. A well-trained applicator ensures that materials are fully cured, gaps are sealed, and the job is completed in the correct manner.

In the U.S.
The Dow Chemical Company Dow Building Solutions
200 Larkin Center
Midland, MI 48674

Sales & Technical Information
800-563-BLUE (2583)
Sales Information
800-232-2438 (English)

For your customers, FROTH-PAK™ Systems help create a more comfortable and efficient environment in four key areas:

- **Comfort** — Building occupants enjoy more consistent comfort, health, safety, performance and energy efficiency.
- **Efficiency** — Helps improve indoor air quality as the result of improved tightness, while open-cell foams such as XPS (expanded polystyrene) will help reduce thermal conductivity.
- **Durability** — FROTH-PAK™ Systems reduce air and moisture infiltration, helping to prevent rot, decay and other issues that can cause structural failures.
- **Infiltration** — Helps improve indoor air quality as the result of improved tightness.

FROTH-PAK™ Systems by Dow

Increase performance. Increase business. Increase your bottom line.

For more information, please visit dowbuildingsolutions.com.

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Note: Dow Polyurethane Foam Insulation and Sealants are classified as Class A foam under ASTM C1202. Dow Polyurethane Foam Insulation and Sealants have been approved for use in Vapor Retarder and Vapor Barrier applications, as specified in the requirements of the International Code Council (ICCS). The use of these products in walls and cavities must be in accordance with ICCS, national and local code requirements. Dow Polyurethane Foam Insulation and Sealants are not considered for structural use. Dow Polyurethane Foam Insulation and Sealants are not intended for structural use. Dow Polyurethane Foam Insulation and Sealants are not intended for structural use. Dow Polyurethane Foam Insulation and Sealants are not intended for structural use. Dow Polyurethane Foam Insulation and Sealants are not intended for structural use.
Occupants save every year.
You can explain the comfort and efficiency FROTH-PAK™ delivers or talk about how this higher performance building solution helps improve the value of any structure. But home and building owners want to know about the return on investment for FROTH-PAK™ products.

“Dow FROTH-PAK™ Systems considerably cut down prep time, and the 1-hour* [reoccupy] time frame is a great solution. Plus, the low-pressure system works extremely well in tight situations.”

— Cally Galloway
Vice President, Galloway-Bell, Inc.

**ENERGY SAVINGS**

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>Seal recycled attic plates</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT</td>
<td>FROTH-PAK™ Foam Insulation</td>
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<tr>
<td>ENERGY SAVINGS</td>
<td>$125 annually</td>
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</tbody>
</table>

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