Dow Building Solutions

FROTH-PAK™ Systems by Dow
Increase performance. Increase business.
Increase your bottom line.
Seal the deal in a way no one else can.

Better building performance means better business. Dow Building Solutions offers a number of products designed to outperform building codes and the elements, all while helping you stay a few steps ahead of your competitors and increasing customer satisfaction. These products include FROTH-PAK™ Systems, which are an excellent choice for reducing drafts, increasing building comfort and possibly expanding your current service offerings.

Overview and Benefits

Seal the deal in a way no one else can.

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®

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.

Overview and Benefits

Sources of Energy Loss

- Ceiling
- Walls
- Windows/Doors
- Basement Walls
- Basement Floor

Why Air Seal with FROTH-PAK™?

Air infiltration accounts for 25%–40% of a building’s energy loss. Air sealing with FROTH-PAK™ helps to:

- Reduce energy consumption
- Reduce temperature fluctuations
- Seal out pests and allergens
- Help prevent moisture intrusion
- Improve air quality
- Minimize carbon footprint
- Increase interior comfort
- Decrease load on HVAC systems
- Limit drafts and heat loss
- Dampen outside noise
- Protect structural durability
- Decrease load on HVAC systems
- Dampen outside noise
- Protect structural durability

Benefits to Contractor

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
- Customer referrals — When your customers are happy, they are more likely to recommend your company and FROTH-PAK™ Systems to others, which means more business
- 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 Occupant

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

Whether you’re working on new construction or an existing building, above or below grade, FROTH-PAK™ Systems combat air leaks and moisture intrusion by insulating and sealing on every level. Go to SprayFoamAtDow.com for more information.
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, health, safety, performance and energy efficiency of any building — and all of these 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 superior 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 excellent 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, multi-purpose kits, allowing one kit to:
  - Requires no external power source or extra gas cylinders (FROTH-PAK® Kits)
- FROTH-PAK® KIT System includes tanks, regulator, hose assembly, gun applicator and anti-crossover gun nozzle
- 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

High Performance
- INSTA-FLO™ Dispensing Spray Gun is designed to reduce overspray and waste by maintaining even foam flow
- Minimal cure time, with re-entry allowed after only 1 hour* compared to 24 hours when high pressure spray systems are used. This ensures that you can quickly move on to your next job and your customers can quickly move back into their home or business
- Insulation is Class A fire-rated (flame spread index of 25 or less) and NFPA 286 compliant as it can be left exposed in roof/wall junctures up to 6” in height, 2” in depth and unlimited length without a thermal barrier*
- Can result in estimated savings of up to 30% on heating and cooling costs for your customers
- Provides an effective air barrier in new construction
- Fills cavities, penetrations and gaps greater than 2" in diameter
- Two-component polyurethane foam quickly cures in less than one minute
- Provides a high level of insulating R-value on initial application (6.6 per inch Class A) and retains R-value of 6.1 even when foam ages (FROTH-PAK® Foam Insulation only)
- Optional Arctic Pak heated base system allows year-round application in colder climates (refillable kits only)

Cost Efficiency
- Helps make 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

Let the good foam 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 shut-off safety mechanism
  - Ensuring precise output, resulting in better foam quality

* Check your local building codes.
** R-Value per inch. @ 3" x 3" x 78"-90" aged 28 days, 72°F measured at 1" thick.
* See insulation guidelines in the online Training Center at FROTH-PAK.com.
Dispensers of distinction.
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
- Sawed design improves mixing 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.

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-in-situ sealing, because they supply closed-cell foam with performance similar to drum systems but help you enter the business without the expense 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 supply steel tanks that are pressurized onsite
- Containers are refillable and reusable, 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
- Insulation is required (not supplied)

FROTH-PAK® Refill System benefits
Affordable
- Lower-lifecycle cost compared to drum and rig system
- Less up-front 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 with an Arctic Pak Starter Kit that includes:
- Arctic Pak heated hose wrap and controller
- Extended hose length
- Inerting/Deactivating Spray Gun
- Regulator kit
- Two chemical eqidval valves (tank-to-hose)
- Two in-line eqidval 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 877-559-3407. To order, call 800-469-6033 and refer to the item numbers below:
- DOW 17 (27-gallon tank heater)
- DOW 27 (57-gallon tank heater)
- DOW 40 (90-gallon tank heater)
- DOW 420-826- and 650-ft single-component polymer heater
- DOW 200 (200- and 210-ft A & B dispensable box heater)
- DOW 6132 (pump and 55-gallon drum heater)
- DOW 600PRO (Pro series 55-gallon drum heater and thermostatic controller)
- DOW GHT (Digital thermostatic controller)

* See fill ventilation guidelines in the online Training Center dowbuildingsolutions.com
POWERBLANKET® is a registered trademark of Flawtek Technologies, LLC.

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.

Air Sealing
- Wall/duct penetrations
- Electrical, mechanical and plumbing penetrations
- Foam wall jamb/offset
- Attic (perimeter)

- Rim joists
- Around pipes
- Within wall cavities
- Odor control
- Reduce entry of dust, pests and allergens
- Stud wall cavities
- Cold floors above
- Uninsulated areas (such as a living area above a garage)
- Rim and band joints

Insulation
- Crawl space walls
- Ceilings
- Attic (artwork)
- Plumbing wall pipe insulation and support

Seal Within Cavities
To block out drafts and enhance the insulation’s performance, spray FROTH-PAK® Foam Sealant using a “picture frame” technique within the wall cavity before installing batt insulation.

Heating/Ventilating/Air Conditioning
- Pipe (including geothermal) insulation
- HVAC duct sealant
- Stud wall cavities
- Ceiling/EasyWall penetrations/penetrations

Transportation/ Marine
- Sealant, insulation, structural stability and sound damping for:
  - Boats
  - RVs
  - Refrigerated truck trailers
  - Aircraft
  - Rail cars
  - Offshore applications

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

ASBESTOS ABATEMENT
- Soot, void and hole sealant
- Sealant for irregular voids
- Sealant to maintain negative air pressure

COLD STORAGE
- Floor seams
- Fluted roof decks
- Wall-to-wall interseals

POOL AND SPA
- Insulation repair
- Structural support
- Sound damping

PLUMBING
- Sealant around copper or PVC pipes and penetrations
- Bath and shower base stabilizer
- Fiberglass bathtub repair

OTHER
- Archaeology fieldwork
- Elevators, sound damping
- Flotation
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 it 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, rigid-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, health, 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 Cellobond Insulation:
- Fiberglass bats look low, lose R-value when compressed and promote mold growth when wet.
- Involves measuring and cutting, creating potential for inaccuracies.
- Cellobond 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 roofwall juncture, roof penetrations, conduct, wall/floor juncture, and duct joints.

High-Pressure Rig System:
- Higher 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 react time for recharges.

Contractors say it best:

Ken Sheklen, Metro Home Insulation

SEE HOW FROTH-PAK® KITS RATED

<table>
<thead>
<tr>
<th>FROTH-PAK®</th>
<th>Major Competitors</th>
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<tbody>
<tr>
<td>Consistency, application within 85%–105%</td>
<td>80% (Mach 2) 90% (Mach 3)</td>
</tr>
<tr>
<td>Flow rates</td>
<td>Most consistent from start to finish (Froth Pak)</td>
</tr>
</tbody>
</table>
| Reliability, dispensing system | 25% (
| On-site consumption | 95% to 100% | 95%–98% |
| Error tolerance | 20%–25% | More than 50% |

Table 1: Application on Ratio

Table 2: 200 Kit Flow Rate

Our people help you create bigger business.

Expertise that extends beyond our products.

As a building professional, you get much more than exceptional products when you work with Dow Building Solutions. You also benefit from an industry-leading level of sales and technical support in the areas of building science. We deliver a wealth of resources to resolve day-to-day challenges and help your business grow.

You can count on us for:
- An extensive sales force working to generate demand for your business and providing training to you and your teams.
- In-house technical support to help you meet and exceed building codes.
- Product support to assist you with installations and implementations, including the process of calibrating the cylinders.
- National marketing initiatives that drive education and demand.
- Industry support that offers training, seminars, and other programs to keep you connected and informed.
- Product specialists who are constantly creating new and enhanced systems and applications in order to help you stay ahead of codes — and your competition.

More than 45 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’re 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 be in every project, knowing that the 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) at spraysolutions@Dow.com.

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

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

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 unprecedented 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 field sales team that consults with your team to help ensure you’re offering the best solutions to your customers.
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, 120, 200, 620
- FROTH-PAK® Insulation Kits: 210, 650
- FROTH-PAK® Refillable Cylinders: 17, 27, 60, 120, 350

FROTH-PAK® Foaming Kit:
- 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 these 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

What does it all mean?

Part of being the leader in the fight against air leaks is making sure there's a solution for any job.

- FROTH-PAK® Foam Insulation Kits: 210, 650
- FROTH-PAK® Foam Insulation Refills: 17, 27, 60, 120, 350
- FROTH-PAK® Foam Sealant Kits: 12, 120, 200, 620
- FROTH-PAK® Foam Sealant Refills: 17, 27, 60, 120, 350

Big job? Small job? Any job.

No matter the size, there's a FROTH-PAK® Solution to get the job done.

Required Personal Protective Equipment:
- NIOSH-approved full-face or half-mask air-purifying respirator with an organic vapor sorbent and a P100 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)

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

[Table of product listings and specifications]

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.

**Energy savings:**
- Small or medium and small
- ENERGY SAVINGS: $105 annually

**Froth PAK**

Product Listing/Specifications

[Diagram or image related to the product listing and specifications]
Outperform the competition with Dow Building Solutions

For more than 65 years, Dow has been a proven industry-leader in above and below grade air sealing solutions, including 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

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

Sales & Technical Information
886-583-BLUE (2583)
Sales Information
800-232-2436 (English)

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dowbuildingsolutions.com

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FROTH-PAK™ Spray Polyurethane Foam contains isocyanate, hydrofluoro carbon blowing agent and polyol. Read the instructions and Material Safety Data Sheets carefully before use. Wear protective clothing (including long sleeves), gloves, goggles or safety glasses, and proper respiratory protection. Do not breathe vapor or mist. Use only with adequate ventilation. It is recommended that applicators and those working in the spray area wear respiratory protection. Increased ventilation significantly reduces the potential for isocyanate exposure; however, supplied air or an approved air-purifying respirator equipped with an organic vapor sorbent and a particulate filter may still be required to maintain exposure levels below OSHA, OSHW, WEEL, or other applicable limits. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure, air-supplying respirator (constant or self-contained breathing apparatus). Spraying large amounts of foam induces may require the use of a positive-pressure, air-supplying respirator. Contents under pressure.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier, including Dow can guaranteeler that mold will not develop in any specific system.

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