

# 1 PRODUCT NAME

## FROTH-PAK™ 180 Spray Foam

## 2 Manufacturer

The Dow Chemical Company  
Building & Construction  
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Midland, MI 48674  
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Building & Construction  
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1-866-583-BLUE (2583) (English)  
1-800-363-6210 (French)  
www.dowstyrofoam.ca/4architects

## 3 Product Description

### BASIC USE

Available in two densities, FROTH-PAK™ 180 Spray Foam is a two-component, quick-cure polyurethane foam that fills cavities, penetrations, cracks and expansion joints. FROTH-PAK 180 Tank Only (2.75 pcf) can also be used as a sealant in many roofing applications. Unlike one-component foam, which uses moisture as a curing agent, FROTH-PAK is a chemically cured foam, significantly reducing curing time. FROTH-PAK dispenses, expands and becomes tack-free in seconds. The product will skin over in 30-40 seconds and will be completely cured in less than one minute.

FROTH-PAK 180 Spray Foam can be used in either interior or exterior industrial, commercial, institutional and residential settings. If used in an exterior setting, a coating must be applied for ultraviolet (UV) protection.

### SIZES

FROTH-PAK™ 180 Spray Foam Kit (1.75 pcf) is typically sold as a complete 30 lb portable kit that includes pressurized “A” and “B” tanks, plus hose assembly and accessories. At 2.75 pcf, FROTH-PAK 180 Tank Only is available in refillable tanks. Additional product sizes may be available. Consult your Dow sales representative about other sizes and lead-time requirements as well as additional FROTH-PAK products suitable for your application.

## 4 Technical Data

### APPLICABLE STANDARDS

ASTM International

- C518 – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- C273 – Standard Test Method for Shear Properties of Sandwich Core Materials

- D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics
- D1623 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
- D2842 – Standard Test Method for Water Absorption of Rigid Cellular Plastics
- E96 – Standard Test Methods for Water Vapor Transmission of Materials
- C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation

### PHYSICAL PROPERTIES

FROTH-PAK™ 180 Spray Foam exhibits the typical properties and characteristics indicated in Table 1 when tested as represented.

TABLE 1

| Physical Properties of FROTH-PAK™ 180 Spray Foam         |              |
|--|--------------|
| Property and Test Method                                 | Value        |
| Tack-free Time, minutes                                  | < 1          |
| Tensile Strength, ASTM D1623, psi (kPa), parallel        | 40.1 (276.4) |
| Shear Strength, ASTM C273, psi (kPa), parallel           | 23.9 (164.8) |
| Flexural Strength, ASTM C203, psi (kPa), min.            | 23 (158.6)   |
| Compressive Strength, ASTM D1621, psi (kPa), min.        | 22 (151.7)   |
| Apparent Core Density, ASTM D1622, lb/ft³ (kg/m³)        | 1.70 (27.2)  |
| Water Absorption, ASTM D2842, % by volume, max.          | 2.5          |
| Water Vapor Permeance, ASTM E96, perm (ng/Pa•s•m²), max. | 3.0 (4.38)   |
| Recommended Application Temperature, °F (°C)             | 75 (89)      |

## FIRE PROTECTION

The foam produced by FROTH-PAK™ 180 Spray Foam is organic and combustible and may constitute a fire hazard. Do not expose foam to flame or temperatures above 240°F (116°C).

## CODE COMPLIANCES

FROTH-PAK™ 180 Spray Foam complies with the following codes:

- ICBO-ES ER 3974
- CCMC 13074-R
- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificates R7813 and R13655

Contact your Dow sales representative or local authorities for state/provincial and local building code requirements and related acceptances.

## 5 Installation

Complete operating instructions are provided with each FROTH-PAK™ 180 Spray Foam purchase. Read all information and cautions before application. Note: Avoid overfilling restricted spaces. Chemicals exert force during reaction, and an uncontrolled expansion of foam may result.

FROTH-PAK Spray Foam products contain isocyanate, hydrofluorocarbon blowing agent and polyols. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves and goggles and provide adequate ventilation and/or wear respiratory protection. Supplied air or an approved air-purifying respirator equipped with an organic vapor sorbent and a particle filter is required when applying spray foam in areas with insufficient ventilation or in areas where applicable ACGIH, OSHA or WEEL exposure levels may be exceeded.

Contact a local Dow representative or access the literature library at [www.dowstyrofoam.com/architect](http://www.dowstyrofoam.com/architect) or [www.dowstyrofoam.ca/4architects](http://www.dowstyrofoam.ca/4architects) for more specific instructions.

## 6 Availability

FROTH-PAK™ 180 Spray Foam is distributed through an extensive network. For more information, call:  
1-800-232-2436 (English)  
1-800-565-1255 (French)

## 7 Warranty

Not applicable.

## 8 Maintenance

Not applicable.

## 9 Technical Services

Dow can provide technical information to help address questions when using FROTH-PAK™ 180 Spray Foam. Technical personnel are available to assist with any insulation project. For technical assistance, call:  
1-866-583-BLUE (2583) (English)  
1-800-363-6210 (French)

## 10 Filing Systems

- [www.dowstyrofoam.com/architect](http://www.dowstyrofoam.com/architect)
- [www.dowstyrofoam.ca/4architects](http://www.dowstyrofoam.ca/4architects)
- [www.sweets.com](http://www.sweets.com)

### IN THE U.S.:

- For Technical Information: **1-866-583-BLUE (2583)**
- For Sales Information: **1-800-232-2436**

### THE DOW CHEMICAL COMPANY

- Building & Construction • 200 Larkin • Midland, MI 48674
- [www.dowstyrofoam.com/architect](http://www.dowstyrofoam.com/architect)**

### IN CANADA:

- For Technical Information: **1-866-583-BLUE (2583)** (English); **1-800-363-6210** (French)
- For Sales Information: **1-800-232-2436** (English); **1-800-565-1255** (French)

### DOW CHEMICAL CANADA INC.

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COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS or call Dow at 1-866-583-BLUE (2583). In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

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

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