Dow Building Solutions

1 PRODUCT NAME
FROTH-PAK™ Foam Sealant

2 Manufacturer

The Dow Chemical Company
Dow Building Solutions
200 Larkin
Midland, MI 48674
1-866-583-BLUE (2583)
Fax 1-989-832-1465

Dow Chemical Canada Inc.
Dow Building Solutions
450 – 1st St. SW, Suite 2100
Calgary, AB T2P 5H1
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

www.dowbuildingsolutions.com

3 Product Description

FROTH-PAK™ Foam Sealant is a two-component, quick-cure polyurethane foam that fills cavities, penetrations, cracks and expansion joints. FROTH-PAK Foam Sealant can also be used as a sealant and void fill 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 minutes.*

Dow has passed NFPA 286 fire testing on FROTH-PAK™ Foam Sealant to allow its use in the roof-to-wall juncture when applied to a maximum exposure area 6" high and 4.5" deep. This testing meets the intent of the Special Approval Section 2603.9 of the IBC, which allows for the material to be tested according to NFPA 286. FROTH-PAK Foam Sealant may be applied and left exposed without a 15-minute thermal barrier (Section 2603.4 of the IBC) between FROTH-PAK Foam Sealant and the interior of the building.

BASIC USE

Typical applications include spray polyurethane foam roof repair (use FROTH-PAK™ 115 [2.75 pcf] only), and sealing roof perimeters and parapet walls (use any FROTH-PAK Foam Sealant).** FROTH-PAK Foam Sealant 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 ultra-violet (UV) protection.

SIZES

FROTH-PAK™ Foam Sealant is sold as a complete kit that includes pressurized "A" and "B" tanks, plus dispensing gun/hose assembly and accessories. FROTH-PAK is also available in larger sizes including refillable, returnable tanks. 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
- D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- 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™ Foam Sealant exhibits the typical properties and characteristics indicated in Table 1 when tested as represented.

FIRE PROTECTION

The foam produced by FROTH-PAK™ Foam Sealant 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™ Foam Sealant complies with the following codes:

- CCMC 13074-R
- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificate R13655
- NFPA 286 fire tested for use at interior roof-to-wall juncture when applied to a maximum exposure area 6" high and 4.5" deep

Contact your Dow sales representative or local authorities for code requirements and related acceptances.

5 Installation

Complete operating instructions are provided with each FROTH-PAK™ Foam Sealant Kit purchase. Read all information and cautions before application. **Note: Avoid overfilling restricted spaces. Chemicals exert force during reaction, and expansion of foam may result in substrate deformation.**

FROTH-PAK™ Foam Sealant contains isocyanate, blowing agent and polyol. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves, goggles and proper respiratory protection. Supplied air or an approved air-purifying respirator equipped with an

*Actual cure time will depend on temperature.
**For rim/band joist applications, use FROTH-PAK™ FS Foam Insulation to meet building code specifications.

exposure limits. Provide adequate ventilation.

PRODUCT INFORMATION

For more specific instructions, contact a local Dow representative or access the literature library at:

6 Availability

FROTH-PAK™ Foam Sealant Kits are 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™ Foam Sealant. Technical personnel are available. For technical assistance, call:
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

10 Filing Systems

TABLE 1

Typical Physical Properties of FROTH-PAK™ Foam Sealant

Property and Test Method	Value
Nominal Density, ASTM D1622, lb/ft³ (kg/m³)	1.75 (28)
Thermal Resistance per in. (25 mm), ASTM C518, ft²·h·°F/Btu (m²·°C/W), R-Value (RSI)(1), min.	
Initial	7.0 (1.23)
Aged 180 days at 72°F (22°C), 50% R.H.	5.1 (0.90)
Accelerated Service Conditions, ASTM D756	
Procedure A	
% Volume Change	3.65
% Weight Change	-1.17
Procedure B	
% Volume Change	1.77
% Weight Change	-1.29
Procedure E	
% Volume Change	15.88
% Weight Change	-2.69
Water Vapor Transmission, ASTM E96, perm-in (x 10^{-12}) (kg/Pa·s·m²)	1.6 (2.33)
Water Vapor Permeance, ASTM E96, perm at 1" (ng/Pa·s·m² @ 25 mm)	4.5 (6.57)
Water Absorption, ASTM D2842, % by volume	1.9
Dimensional Stability, ASTM D2126, % vol. change	
100°F/100%RH@1wk	1.65
100°F/100%RH@2wks	1.42
158°F/100%RH@1wk	4.96
158°F/100%RH@2wks	4.98
-40°F/amb RH@1wk	-0.36
-40°F/amb RH@2wks	0.01
-100°F/amb RH@1wk	-1.24
-100°F/amb RH@2wks	-2.14
158°F/amb RH@1wk	1.81
158°F/amb RH@2wks	1.40
212°F/amb RH@1wk	8.83
212°F/amb RH@2wks	7.96
Compressive Strength, ASTM D1621, lb/in² (kPa), parallel	51.1 (352.3)
Flexural Strength, ASTM C203, lb/in² (kPa), parallel	15.1 (104)
Tensile Strength, ASTM D1623, lb/in² (kPa), parallel	32.1 (221.3)
Shear Strength, ASTM C273, lb/in² (kPa), parallel	20.9 (144.1)
Maximum Service Temperature, °F (°C)	240 (116)
Minimum Ambient Temperature(2), °F (°C)	50 (10)

(1) R means resistance to heat flow. The higher the R-value or RSI (R-value système internationale – metric equivalent), the greater the insulating power.
(2) Application at lower temperatures may reduce adhesion.

IN THE U.S.:
- **For Technical Information: 1-866-583-BLUE (2583)**
- **For Sales Information: 1-800-232-2436**

THE DOW CHEMICAL COMPANY
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DOW CHEMICAL CANADA INC.
• Dow Building Solutions • Suite 2100 • 450 – 1st St. SW • Calgary, AB T2P 5H1

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