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FROTH-PAK™ FOAM INSULATION

1. PRODUCT NAME

FROTH-PAK™ Foam Insulation

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

BASIC USE

FROTH-PAK™ Foam Insulation is a two-component, quick-cure polyurethane foam that fills cavities, penetrations, cracks and expansion joints. Unlike one-component foam, FROTH-PAK™ Foam Insulation is a chemically cured foam, significantly reducing curing time.

FROTH-PAK™ Foam Insulation dispenses, expands and becomes tack-free in seconds. The product will skin over in 30-40 seconds and will be completely cured in minutes.*

The Class-A rating (flame spread of 25 or less) of FROTH-PAK™ Foam Insulation allows its use in a wide range of interior and exterior industrial, commercial, institutional and residential settings. Check with local codes prior to use. If used in an exterior setting, a coating must be applied for ultraviolet (UV) protection.

SIZES

FROTH-PAK™ Foam Insulation is typically sold as a complete 42 lb (FROTH-PAK™ 200) portable kit that includes pressurized “A” and “B” cylinders, plus dispensing gun/hose assembly and accessories. FROTH-PAK™ Foam Insulation is also available in refillable, returnable cylinders for commercial applications requiring a large amount of foam. See Table 1 for yield and size information.

4. TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM International
- C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
 - C273 – Standard Test Method for Shear Properties of Sandwich Core Materials
 - C518 – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
 - 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
 - E283 – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen
 - E2178 – Standard Test Method for Air Permeance of Building Materials

PHYSICAL PROPERTIES

FROTH-PAK™ Foam Insulation exhibits the typical properties and characteristics indicated in Table 2 when tested as represented.

FIRE PROTECTION

Cured FROTH-PAK™ foam is combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F.

CODE COMPLIANCES

FROTH-PAK™ Foam Insulation complies with the following codes:

- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificate R7813
- National Fire Protection Association – per NFPA 286 testing, can be left exposed in non-fire-resistant rated roof/wall junctures, maximum 6" high and 2" deep (unlimited width)

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

5. INSTALLATION

Complete operating instructions are provided with each FROTH-PAK™ Foam Insulation 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.**

TABLE 1: SIZES AND THEORETICAL YIELDS FOR FROTH-PAK™ FOAM INSULATION

PRODUCT	THEORETICAL YIELD ⁽¹⁾ , BOARD FT
<i>Kits</i>	
FROTH-PAK™ 200	200
FROTH-PAK™ 620	620
<i>Refillable Cylinders (commercial use)</i>	
FROTH-PAK™ 17 (gal)	2,060
FROTH-PAK™ 60 (gal)	6,860
FROTH-PAK™ 120 (gal)	15,430
FROTH-PAK™ 350 (gal)	43,890

(1) The theoretical yield has become an industry standard for identifying certain sizes of two-component kits. Theoretical yield calculations are performed in perfect laboratory conditions, without taking into account the loss of blowing agent or the variations in application methods and types.

SAFETY AND CONDITIONS OF USE

- Read the instructions and Material Safety Data Sheets carefully before use.
- FROTH-PAK™ spray polyurethane foam contains isocyanate, hydrofluorocarbon blowing agent and polyol. Do not breathe vapor or mist. Use only in well-ventilated areas or with proper respiratory protection. Supplied air or an approved air-purifying respirator equipped with an organic vapor sorbent and a P100 particulate filter may be required to maintain exposure levels below

ACGIH, OSHA, 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 (air line or self-contained breathing apparatus).

- Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact.
- FROTH-PAK™ foam will adhere to most surfaces and skin. Do not get foam on skin. Wear protective clothing (including long sleeves),

gloves, and goggles or safety glasses. Cured foam must be mechanically removed or allowed to wear off in time.

- The contents are under pressure.
- FROTH-PAK™ foam should not be used around heaters, furnaces, fireplaces, recessed lighting fixtures or other applications where the foam may come in contact with heat-conducting surfaces. Cured FROTH-PAK™ foam is combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F.

TABLE 2: TYPICAL PHYSICAL PROPERTIES OF FROTH-PAK™ FOAM INSULATION

PROPERTY AND TEST METHOD	VALUE
Flame Spread/Smoke Developed ⁽¹⁾⁽²⁾ , ASTM E84/UL 723	25/350
Nominal Density, ASTM D1622, lb/ft ³	1.75
Thermal Resistance ⁽³⁾ per inch, ASTM C518, ft ² •h•°F/Btu, R-value, min.	
Initial	6.6
Aged 90 days at 140°F	5.6
Air Leakage, ASTM E283, cfm/ft ² @ 1.57 psf	0
ASTM E2178, L/s/m ² @ 75 Pa	0
Water Vapor Permeance, ASTM E96	
perm @ 1" thick	3.9
perm @ 2" thick	2.0
Water Absorption, ASTM D2842, % by volume	2.17
Dimensional Stability, ASTM D2126, % volume change	
100°F/100% RH @ 1wk	4.6
100°F/100% RH @ 2wks	5.0
158°F/100% RH @ 1wk	6.5
158°F/100% RH @ 2wks	5.1
-40°F/amb RH @ 1wk	0.9
-40°F/amb RH @ 2wks	0.9
158°F/amb RH @ 1wk	3.1
158°F/amb RH @ 2wks	2.3
Compressive Strength, ASTM D1621, lb/in ² , parallel	21.1
Flexural Strength, ASTM C203, lb/in ² , parallel	22.7
Tensile Strength, ASTM D1623, lb/in ² , parallel	26.7
Shear Strength, ASTM C273, lb/in ² , parallel	16.7
Maximum Service Temperature, °F	240

(1) Tested at 2" thickness, full coverage.
 (2) This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
 (3) R means resistance to heat flow. The higher the R-value, the greater the insulating power.

Visit www.dowbuildingsolutions.com or contact a local Dow representative for more specific instructions.

6. AVAILABILITY

FROTH-PAK™ Foam Insulation is distributed through an extensive network. For more information, call 1-800-232-2436.

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 Insulation. Technical personnel are available to assist with any insulation project. For technical assistance, call 1-866-583-BLUE (2583).

10. FILING SYSTEMS

- www.dowbuildingsolutions.com
- www.sweets.com

www.dowbuildingsolutions.com

Technical Information
 1-866-583-BLUE (2583)

THE DOW CHEMICAL COMPANY
 200 Larkin
 Midland, MI 48674

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Dow Polyurethane Foam Insulation and Sealants

CAUTION: When cured, these products are combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F. For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400.

FROTH-PAK™ spray polyurethane foam contains isocyanate, hydrofluorocarbon 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. Supplied air or an approved air-purifying respirator equipped with an organic vapor sorbent and a P100 particulate filter may be required to maintain exposure levels below ACGIH, OSHA, WEEL or other applicable limits. Provide adequate ventilation. 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 give assurance that mold will not develop in any specific system.

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