



Dow Building Solutions

FROTH-PAK™ Two component quick-cure Polyurethane Foam Insulation Manufacturer's Insulation Fact Sheet

FROTH-PAK™ Foam Insulation is a two component quick-cure polyurethane foam insulation. This product is available from Dow Building Solutions and is clearly identified by the DOW Diamond logo.

Table 1: Sizes and Theoretical Yields for FROTH-PAK™ Foam Insulation

Product	Theoretical Yield, ⁽¹⁾ board ft
Kits	
FROTH-PAK™ 200	200
FROTH-PAK™ 620	620
Refillable Cylinders	
FROTH-PAK™ 17 (gal)	2,060
FROTH-PAK™ 27 (gal)	3,240
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.

Table 2: Typical Physical Properties of FROTH-PAK™ Foam Insulation

These properties are typical but do not constitute specifications.

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. *	6.6
Initial	5.4 (when sprayed as 1" thickness)
Aged 90 days at 140°F – 1.0"	11.2 (R5.6/in. when sprayed as 2" thickness)
Aged 90 days at 140°F – 2.0"	
Air Leakage, ASTM E283, cfm/ft ² @ 1.57 psf ASTM E2178, L/s/m ² @ 75 Pa	0 0
Water Vapor Permeance, ASTM E96 perm @ 1" thick perm @ 2" thick	3.9 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.

* See Read This Before You Buy on Page 2

FROTH-PAK™ Two component quick-cure Polyurethane Foam Insulation

Manufacturer's Insulation Fact Sheet

Read This Before You Buy

What You Should Know About R-values

Table 2 shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly.

a proud partner of



In the U.S.

The Dow Chemical Company

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Technical Information

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Sales Information

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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 (116°C). 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 in the U.S. or 1-519-339-3711 in Canada. When air sealing buildings, ensure that combustion appliances, such as furnaces, water heaters, wood burning stoves, gas stoves and gas dryers are properly vented to the outside. See website: <http://www.epa.gov/iaq/homes/hip-ventilation.html>.

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.

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 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). Spraying large amounts of foam indoors 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 give assurance that mold will not develop in any specific system.

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