



MASONPRO, Inc.
43300 Seven Mile Road
Northville, MI 48167
1-800-659-4731
www.masonpro.com

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant

1. PRODUCT NAME

GREAT STUFF PRO™ Gaps & Cracks Insulating 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 ULC
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

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant is a minimal-expanding, single component polyurethane foam sealant for general purpose building envelope air sealing.

In the United States, the sealant is easily identified by its bright orange color. It has led the way in the industry by being recognized as a fireblock, which means it resists the free passage of flames to other areas of the building through concealed spaces.

Basic Use

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant fills and seals gaps up to 3" (75 mm).* GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant:

- expands to take the shape of cracks and voids, forming an airtight and water-resistant bond to wood, metal, masonry, glass and most plastics
- reduces pathways where insects can enter
- installs in minutes (tack-free in 5-10 minutes**, trims within 60 minutes)

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant is both cost-effective and effective as an air sealant.

Sizes

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant is available in 24 oz (680 g) and 30 oz (850 g) gun- and reusable straw-applied versions.

Accessories

Using one of several PRO Series foam dispensing guns simplifies the application of GREAT STUFF PRO™ Gaps & Cracks. In addition to enabling pinpoint application control, an airtight and moisture tight seal between the gun and the can prevents the foam from curing and blocking the dispensing valve, allowing a can to be reused up to one month later.

GREAT STUFF PRO™ Gun Cleaner is a solution to simplify cleanup of uncured polyurethane foam from dispensing guns and work areas. Cured foam must be mechanically removed or allowed to wear off in time.

4. TECHNICAL DATA

Applicable Standards

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant meets the following standards:

- ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E814 (modified) – Standard Test Method for Fire Tests of Through-Penetration Fire Stops
- CAN/ULC S102 – Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

Code Compliances

GREAT STUFF PRO™ Gaps & Cracks complies with Underwriters Laboratories, Inc. (UL) Classification, Classified as a sealant: see UL R13655.

Evaluation Reports

- ICC-ES ESR-1961 (US only)
- CCMC R13074 (CAN only)

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

Physical Properties

GREAT STUFF PRO™ Gaps & Cracks is a polyurethane-based foam with a minimal-expansion formulation. It cures quickly and has a moisture-resistant skin. GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant exhibits the typical properties indicated in Table 1 when tested as represented.

5. INSTALLATION

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant is easy to use. Complete installation instructions are provided on each can. Application surface should be free of dust and dirt. Damp surfaces will not impair the bond. PRO Series foam dispensing guns provide clean and precise dispensing with professional results.

Safety And Conditions Of Use

- Read all instructions and (Material) Safety Data Sheet ((M)SDS).
- GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant contains isocyanate and a flammable blowing agent. Vapors may travel to other rooms. Ensure adequate ventilation and shut off all pilot lights and open flames; eliminate all sources of ignition before use. Do not smoke or use lighters or matches while dispensing foam.
- Do not breathe vapor or mist. Use in well-ventilated areas or wear proper respiratory protection. Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact.

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*For cavities, cracks and penetrations larger than 3" (75 mm), Dow recommends FROTH-PAK™ Foam Sealant or FROTH-PAK™ Foam Insulation (US only). For window and door framework, minimal-expanding GREAT STUFF PRO™ Window & Door Insulating Foam Sealant is proven not to distort or bow the framework, when properly applied.

**70 ± 5 °F and 50 ± 5 %RH, 1 inch bead diameter, 6 inch length. Cure rate is dependent on temperature, humidity, and size of foam bead.

- GREAT STUFF PRO™ foam is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Cover all skin, wear 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. Not to be used for filling closed cavities or voids such as behind walls and under tub surrounds. The can may burst if left in areas susceptible to high temperatures, such as motor vehicles, or near radiators, stoves or other sources of heat. Do not place can in hot water. Do not puncture, incinerate or store at temperatures above 120°F (49°C).
- GREAT STUFF PRO™ 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. GREAT STUFF PRO™ 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 (116°C).

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

6. AVAILABILITY

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant is distributed through an extensive network. For more information, call:
1-800-232-2436 (English)
1-800-565-1255 (French)

TABLE 1: Typical Physical Properties¹ Of GREAT STUFF PRO™ Gap & Cracks Insulating Foam Sealant

Property and Test Method	Value
Flexural Strength, ASTM C203, parallel to rise, psi (kPa), min.	8.8 (60.7)
K-factor (Thermal Conductivity) per inch (25mm), ASTM C518 @75°F (24°C) mean temp., Btu•in/ft ² •hr•°F (W/m•°C), min.	0.26 (0.037)
Compressive Strength, ASTM D1621, parallel to rise, psi (kPa)	9.3 (64.1)
Apparent Core Density, ASTM D1622, pcf (kg/m ³)	1.01 (16)
Dimensional Stability, ASTM D2126, % volume change	
100°F/100%RH@2wks	14.31
-40°F/ambRH@2wks	0.41
Closed Cell Content, ASTM D2856, %	80
Tensile Strength, ASTM D1623, parallel to rise, psi (kPa)	14.4 (99.3)

¹Not to be considered sales specifications

7. WARRANTY

Not applicable.

8. MAINTENANCE

GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant has a shelf life of 12 months when stored at 75°F (24°C). Contents of the can are under pressure. Can may burst if left in areas susceptible to high temperatures, such as motor vehicles, or near radiators, stoves or other sources of heat. Do not place can in hot water. Do not puncture, incinerate or store at temperatures above 120°F (49°C).

9. TECHNICAL SERVICES

Dow can provide technical information to help address questions when using GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant.

For technical assistance, call:
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

10. FILING SYSTEMS

www.dowbuildingsolutions.com



In the United States

The Dow Chemical Company
Dow Building Solutions

200 Larkin Center
Midland, MI 48674

In Canada

Dow Chemical Canada ULC
Dow Building Solutions

450 – 1st St. SW
Suite 2100
Calgary, AB T2P 5H1

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)

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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 (Material) Safety Data Sheet ((M)SDS), 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>. In Canada visit <http://archive.nrc-cnrc.gc.ca/eng/ibp/irc/bsi/83-house-ventilation.html>.

GREAT STUFF PRO™ Insulating Foam Sealants contain isocyanate and a flammable blowing agent. Read all instructions and (Material) Safety Data Sheet ((M)SDS) carefully before use. Eliminate all sources of ignition before use. Cover all skin. Wear long sleeves, gloves, and goggles or safety glasses. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure. Not to be used for filling closed cavities or voids such as behind walls and under tub surrounds.

GREAT STUFF PRO™ Gun Cleaner is flammable and contains acetone and propane. Read all instructions and (M)SDS carefully before use. Eliminate all sources of ignition before use. Cover all skin. Wear gloves, and goggles or safety glasses. Provide adequate ventilation or wear proper respiratory protection. 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.