

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant

1. PRODUCT NAME

GREAT STUFF PRO™ Window & Door 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

www.dowbuildingsolutions.com

3. PRODUCT DESCRIPTION

GREAT STUFF PRO Window & Door Insulating Foam Sealant is a one component, expanding, low pressure-build,* flexible polyurethane foam exclusively formulated to air seal the gap around a window or door frame and the rough opening. The foam expands to generate an effective seal, and when applied properly is proven not to distort or bow window and door frames.

Basic Use

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant is designed to form a durable, airtight, water-resistant bond to vinyl, wood and metal surfaces. Its foam skin repels and deflects water, which can help reduce the potential for moisture damage in frame openings. GREAT STUFF PRO™ Window & Door:

- Expands to take the shape of cracks and gaps, helping stop drafts
- Reduces pathways where insects can enter
- **Is tack free 3-10 min., trims within 60 minutes, fully cured in 8 hours

Size

See Table 1 for size and estimated yields.

Accessories

Using one of several PRO Series foam dispensing guns enables pinpoint application control and no drip dispensing.

*Per AAMA 812-04; refers to pressure development while foam cures.

An air tight and moisture-tight seal between the dispensing gun and the can prevents the foam from curing and blocking the dispensing valve, allowing the can to be reused. GREAT STUFF PRO™ Gun Cleaner simplifies cleanup of uncured polyurethane foam from dispensing guns.

4. TECHNICAL DATA Applicable Standards

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant conforms to ASTM E2112 – Standard Practice for Installation of Exterior Windows, Doors and Skylights. It has also been tested to the following standards using a 1 cm wide gap assembly:

- UL723 (ASTM E84) Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen
- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference

 ASTM C1620 – Standard Specification for Aerosol Polyurethane and Aerosol Latex Foam Sealants

ASTM E2178 (modified per CAN/ULC – S710 testing requirements) Standard Test Method for Air Permeance of Building Materials

For more information on standards/ test approvals and classifications, see Table 2.

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

Physical Properties

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant exhibits the typical physical properties indicated in Table 3 when tested as represented.

5. INSTALLATION

GREAT STUFF PRO™ Window & Door should be applied at temperatures between 40°F and 100°F (4°C and 38°C) at relative humidity > 20 percent. Surface where applied should be free of dust, grease, oil, wax and release agents. Damp surfaces will not impair the bond.

TABLE 1: Sizes and Estimated Yields for GREAT STUFF PRO™ Window & Door Insulating Foam Sealant

Can Size, oz	Delivery	No. of Windows ⁽¹⁾
20	Gun	16 –18

⁽¹⁾ Estimated yield under ideal conditions for 36" x 60" window, 3/8" wide gap, 1" deep, 3/8" bead

TABLE 2: GREAT STUFF PRO™ Window & Door Insulating Foam Sealant Approvals/Classifications

Standard	Result
AAMA 812-04	Conforms to standard at 0.13 psi; 0.90 kPa (average) pressure-build (gun-applied foam)
UL Classified	Classified per UL 723 as under UL File R13655
ICC-ES ESR-1961	Evaluated as an insulating sealant

^{**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

Safety and Conditions of Use

- Read the label and (Material) Safety Data Sheet ((M)SDS) carefully before use.
- GREAT STUFF PRO™ Insulating Foam Sealants contain isocyanate and a flammable blowing agent. Vapor may travel to other rooms. Ensure adequate ventilation. Shut off all pilot lights and extinguish 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.
- GREAT STUFF PRO™ Insulating Foam is very sticky and will adhere to most surfaces and skin. Do not get foam on 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. 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 water. Do not puncture, incinerate or store at temperatures above 120°F (49°C).
- Cured GREAT STUFF PRO™ Insulating 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). GREAT STUFF PRO™ Insulating 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.

TABLE 3: Physical Properties⁽¹⁾ of GREAT STUFF PRO™ Window & Door Insulating Foam Sealant

Property and Test Method	Value
Compressive Strength, ASTM D1621, Parallel to rise, psi (kPa)	3.0 (20.68)
Apparent Density, ASTM D1622, pcf (kg/m³)	1.29 (20.66)
Dimensional Stability, ASTM D2126, % Volume Change at 2 weeks 70 °C/100 %RH 70 °C/Ambient %RH -40°C/Ambient %RH	-3.346 3.131 2.951
Open Cell Content, ASTM D6226, %	<75%
Tensile Strength, ASTM D1623, Parallel to rise, psi (kPa)	9.5 psi = 65.6 kPa (Type B) 5.5 psi = 37.9 kPa (Type C)
Elongation, %, ASTM D1623	18.9% (Type B) 16.7% (Type C)
Shear Strength, ASTM C273 psi (kPa)	7.3 (50.1 kPa)
Flame Spread/Smoke Developed ⁽²⁾ , UL723 (ASTM E84) ⁽³⁾	10/20

⁽¹⁾ Not to be considered sales specifications

For proper ventilation of combustion appliances, visit www.epa.gov/iaq/homes/hipventilation. html.

• Do not inject GREAT STUFF PRO™ Insulating Foam into large or confined cavities such as behind holes in drywall or under tub wall surrounds where flammable vapors may collect. Foam must be exposed to atmospheric moisture to thoroughly cure.

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

6. AVAILABILITY

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant is distributed through an extensive network. For more information, call: 1-800-232-2436

7. WARRANTY

NOT APPLICABLE.

8. MAINTENANCE

GREAT STUFF PRO™ Window & Door has a shelf life of 18 months when stored at 75°F (24°C).

9. TECHNICAL SERVICES

Dow can provide technical information to help address questions when using GREAT STUFF PRO™ Window & Door Insulating Foam Sealant. For technical assistance, call: 1-866-583-BLUE (2583)

10. FILING SYSTEMS

www.dowbuildingsolutions.com

In the U.S.

The Dow Chemical Company

Dow Building Solutions 200 Larkin Center Midland, MI 48674 In Canada

The Dow Chemical Company

Dow Building Solutions 2400, 215, - 2 Street S.W., Calgary, Alberta T2P 1M4 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)

dowbuildingsolutions.com dowgreatstuff.com

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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 (2563) or contact your local building inspector. In an emergency, call 1-989-363-4400 in the U.S. or 1-519-339-371 in Canada. When air sealing buildings, ensure that combustion appliances, such as furnaces, water heaters, wood burning stoves, and sso types are properly vented to the outside. See webside: http://www.ep.gov/iaq/homes/hip-ventliation.html. In Canada wist http://cris/ia/3-house-ventliation.html.

GREAT STUFF PRO* sealant and adhesive products 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 safety glasses or goggles. Not for use in aviation, or food/beverage contact, or as structural support in marine applications. 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; this improper use of the product could result in the accumulation of flammable vapors and/or uncured material. Failure to follow the warnings and instructions provided with the product, and/or all applicable rules and regulations, can result in injury or death.

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.

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⁽²⁾ This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

⁽³⁾ Tested as applied in three – 3/4 inch (19 mm) diameter beads 5 inches (127 mm) on center covering 12.5% of the exposed test sample area