



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
866-583-BLUE (2583)
Fax 989-832-1465

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

www.dowbuildingsolutions.com

3. PRODUCT DESCRIPTION

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant is a one-component, minimal 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 voids, helping stop drafts
- Reduces pathways where insects can enter
- Is tack-free within 20 minutes, trims within 1 hour, fully cured in 12 hours**

SIZES

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant is available in gun- and reusable straw-applied versions. See Table 1 for sizes and estimated yields.

ACCESSORIES

Using one of several PRO Series foam dispensing guns simplifies the application of GREAT STUFF PRO™ Window & Door. 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.

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:

- 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

TABLE 1: SIZES AND ESTIMATED YIELDS FOR GREAT STUFF PRO™ WINDOW & DOOR INSULATING FOAM SEALANT

CAN SIZE, oz (g)	DELIVERY	NO. OF WINDOWS ⁽¹⁾
20 (567)	Reusable straw	6-9
20 (567)	Gun	8-11
24.5 (695)	Reusable straw	8-11
24.5 (695)	Gun	11-14

(1) Average-sized windows (36" x 60" [0.9 m x 1.5 m], gap 3/8" [10 mm] wide and 1" [25 mm] deep)

TABLE 2: GREAT STUFF PRO™ WINDOW & DOOR INSULATING FOAM SEALANT APPROVALS/CLASSIFICATIONS

STANDARD	RESULT
ASTM E283	Air leakage <0.01 cfm/ft ² at 6.24 psf pressure (or 50 mph wind speed) in 1 cm-wide gap
ASTM E331/E547	No water leakage at 12 psf negative pressure in 1 cm-wide gap
AAMA 812-04	Conforms to standard at 0.08 psi pressure-build (gun foam)
ABAA Specifications	Meets sealant component air barrier requirements
UL Classified	Classified per UL 723 as under UL File R13655
CCMC 13074-R	Meets stringent CCMC durability requirements as air leakage control sealant
ICC-ES ESR-1961	Evaluated as an insulating sealant

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 E547 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Difference
- ASTM C1620 – Standard Specification for Aerosol Polyurethane and Aerosol Latex Foam Sealants

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.

®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

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

**Dependent upon temperature, relative humidity and size of foam bead

SAFETY AND CONDITIONS OF USE

- Read the label and Material Safety Data Sheet carefully before use.
- GREAT STUFF PRO™ Window & Door contains 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™ foam is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Wear 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 hot water. Do not puncture, incinerate or store at temperatures above 120°F (49°C).
- GREAT STUFF PRO™ Window & Door 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).

TABLE 3: TYPICAL PHYSICAL PROPERTIES⁽¹⁾ OF GREAT STUFF PRO™ WINDOW & DOOR INSULATING FOAM SEALANT

PROPERTY AND TEST METHOD	VALUE
Flexural Strength, ASTM C203, Parallel to rise, psi (kPa), min.	5.2 (35.9)
Apparent Aged k-factor (Thermal Resistance) per inch (25 mm), ASTM C518 @75°F (24°C) mean temp., Btu•in/ft ² •hr•°F (W/m•°C), min.	0.262 (0.038)
Compressive Strength, ASTM D1621, Parallel to rise, psi (kPa)	2.8 (19.2)
Apparent Density, ASTM D1622, pcf (kg/m ³)	1.63 (26)
Dimensional Stability, ASTM D2126, % Volume Change	
100°F/100%RH@1wk	-0.646
-40°F/ambRH@1wk	1.306
Open Cell Content, ASTM D6226, %	<88.00
Tensile Strength, ASTM D1623, Parallel to rise, psi (kPa)	5.7 (39.3)
Elongation, %, "Test immed. after cut"	19.6
Shear Strength, ASTM C273, Parallel to rise, psi (kPa)	7.07 (48.7)
Flame Spread/Smoke Developed ⁽²⁾ , ASTM E84	10/20

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

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

LIMITATIONS

For best results, GREAT STUFF PRO™ Window & Door should not be applied:

- In bead sizes greater than 3" (75 mm) diameter
- Into excessively deep cavities where ambient moisture is unavailable for foam curing

6. AVAILABILITY

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

7. WARRANTY

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant is expressly warranted for a period of 10 years when used as part of a WEATHERMATE™ Weather Barrier

Solutions installation. See warranty document (Form No. 179-07374) or www.dowbuildingsolutions.com for details.

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: 866-583-BLUE (2583) (English) 800-363-6210 (French)

10. FILING SYSTEMS

www.dowbuildingsolutions.com
www.sweets.com

www.dowbuildingsolutions.com

Technical Information
 866-583-BLUE (2583) (English)
 800-363-6210 (French)

Sales Information
 800-232-2436 (English)
 800-565-1255 (French)

IN THE U.S.
 THE DOW CHEMICAL COMPANY
 200 Larkin
 Midland, MI 48674

IN CANADA
 DOW CHEMICAL CANADA ULC
 450 – 1st St. SW . Suite 2100
 Calgary, AB T2P 5H1

NOTICE: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries or regions. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

COMBUSTIBLE: Protect from heat sources. For more information, consult MSDS, call Dow at 866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 989-636-4400 in the U.S. or 519-339-3711 in Canada.

GREAT STUFF PRO™ Insulating Foam Sealants contain isocyanate and a flammable blowing agent. Read the label and Material Safety Data Sheet carefully before use. Eliminate all sources of ignition before use. Wear gloves, and safety glasses or goggles. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure.

GREAT STUFF PRO™ Gun Cleaner is flammable and contains acetone and propane. Read the label and Material Safety Data Sheet carefully before use. Eliminate all sources of ignition before use. 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.

