



1 PRODUCT NAME

GREAT STUFF™ Pro Window & Door Insulating Foam Sealant

2 Manufacturer

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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 only enough to generate an effective seal, and when correctly installed 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, forming an airtight barrier to stop drafts
- is an ideal product for noise abatement
- minimizes condensation and related problems
- reduces pathways where insects can enter
- installs in minutes (tack-free within 9 minutes, trims within 1 hour, fully cured in 12 hours**)

GREAT STUFF Pro Window & Door is more cost-effective than using caulk, and is proven to provide a more effective air sealant.† One 20 oz can of GREAT STUFF Pro Window & Door is equivalent to 13 quart tubes of caulk.

SIZES

GREAT STUFF™ Pro Window & Door insulating foam sealant is available in 20 oz gun and straw versions. One can provides enough foam to seal up to six average sized windows (36" x 60", gap 3/8" wide and 1" deep). Contact your Dow sales representative with questions.

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 is an innovative solution to simplify cleanup of *uncured* polyurethane foam from foam dispensing guns and work areas.

4 Technical Data and Testing Standards

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 E283 – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen

GREAT STUFF Pro Window & Door Insulating Foam Sealant

- 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

For more information on standards/test approvals and classifications, see Table 1.

CODE COMPLIANCES

GREAT STUFF™ Pro Window & Door complies with the following codes:

- AAMA 812-04
- ABAA standards for air leakage per ASTM E283
- Underwriters Laboratories, Inc. (UL) Classified as a sealant, see UL R13655

For more information on code compliances, see Table 1.

EVALUATION REPORTS

- CCMC 13074-R
- ICC-ES Legacy NER-645

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

PHYSICAL/CHEMICAL PROPERTIES

GREAT STUFF™ Pro Window & Door is a polyurethane-based foam with a minimal expansion formulation. It cures quickly, is freeze-thaw stable and has a moisture-resistant skin to prevent water penetration. Foam elasticity prevents bowing of window and door frames.

GREAT STUFF Pro Window & Door insulating foam sealant exhibits the typical physical properties as indicated in Tables 2 and 3 when tested as represented.

TABLE 1

| GREAT STUFF™ Pro Window & Door Insulating Foam Sealant Test Approvals and Classifications | |
|--|--|
| Standard | Result |
| ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights | Conforms to requirements in this Practice |
| 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 | Air leakage <0.01 cfm/ft² at 6.24 psf pressure (or 50 mph wind speed) in 1 cm-wide gap |
| ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference | No water leakage at 12 psf negative pressure in 1 cm-wide gap |
| ASTM E547 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference | No water leakage at 12 psf negative pressure |
| ASTM C1620 Standard Specification for Aerosol Polyurethane and Aerosol Latex Foam Sealants | Conforms to requirements in this Specification |
| 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 a sealant under UL File R13655 |
| CCMC 13074-R | Meets stringent CCMC durability requirements as air leakage control sealant |
| ICC-ES Legacy NER-645 | Evaluated as Fireblock Penetration sealant |

TABLE 2

| Typical Properties ⁽¹⁾ of GREAT STUFF™ Pro Window & Door Insulating Foam Sealant | |
|---|---|
| Parameter | Gun and Straw Foam |
| Can Size | 20 oz |
| Shelf Life at 75°F | 18 months |
| Code Approvals | UL Classified |
| Flame Spread | 10 |
| Smoke Developed | 20 |
| Core Density (pcf) | 1.6-1.8 |
| Overall (w/skin) Bead Density (pcf) | 2.4-2.9 |
| Appearance | flexible, soft and resilient |
| Color | yellow |
| Tack-free Time | 6-9 minutes |
| Cutting Time | 1 hour |
| Cure Time | 12 hours |
| Other | shake for 30-60 seconds with mixing ball free |
| Yield (lineal feet of 3/8" bead) | Up to 550 per ASTM C1536 |

(1)Not to be considered sales specifications

5 Installation

GREAT STUFF™ Pro Window & Door insulating foam sealant is easy to use. Complete installation instructions are provided on each container. 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%. Surface where applied 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

Before dispensing GREAT STUFF™ Pro Window & Door, read carefully and observe the hazards, precautions and first aid as stated on the can.

- GREAT STUFF Pro Window & Door contains polymeric diisocyanate, hydrocarbons and polyol. GREAT STUFF Pro Window & Door is irritating to eyes and skin and may cause sensitization by inhalation and/or skin contact.

- GREAT STUFF Pro Window & Door is designed to adhere permanently to substrates; it is very sticky. Wear goggles and gloves to prevent eye and skin contact.
- If foam hardens on the skin, it can be removed with a pumice stone and water.
- Use only in well-ventilated areas or wear respiratory protection to prevent inhalation of vapors or mists.

For detailed installation instructions, contact a local Dow representative or access the literature library at www.dowstyrofoam.com/architect, www.dowstyrofoam.ca/4architects, www.insulateyourhome.com or www.insulateyourhome.ca

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, min. | 4.6 |
| Apparent Aged k-factor (Thermal Resistance) per inch, ASTM C518 @75°F mean temp., Btu•in/ft ² •hr•°F, min. | 0.27 |
| Compressive Strength, ASTM D1621, Parallel to rise, psi | 2.3 |
| Apparent Density, ASTM D1622, pcf | 1.8 |
| Dimensional Stability, ASTM D2126, % Volume Change 100°F/100%RH@1wk -40°F/ambRH@1wk | 1.372 1.263 |
| Open Cell Content, ASTM D6226, % | <92.37 |
| Tensile Strength, ASTM D1623, Parallel to rise, psi | 8.1 |
| Elongation, %, "Test immed. after cut" | 17.2 |
| Shear Strength, ASTM C273, Parallel to rise, psi | 8.71 |

(1)Not to be considered sales specifications

LIMITATIONS

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

- in bead sizes greater than 3" diameter
- into excessively deep cavities where ambient moisture is unavailable for foam curing
- to greasy or oily surfaces or to surfaces containing wax or release agents

6 Availability

GREAT STUFF™ Pro Window & Door insulating foam sealant is distributed through an extensive network. For more information, call: 1-800-232-2436 (English) 1-800-565-1255 (French)

7 Warranty

GREAT STUFF™ Pro Window & Door insulating foam sealant is expressly warranted for a period of 18 months from the date of manufacture that it will be free of defects in material and workmanship when installed in strict accordance with Dow's installation procedures and usage guidelines and limitations. Foam must be dispensed within recommended shelf life of 18 months from production (see bottom of can).

8 Maintenance

GREAT STUFF™ Pro Window & Door has a shelf life of 18 months when stored at 75°F (26°C). Contents of the can are under pressure. Do not place can in hot water. Do not puncture, incinerate or store can at temperatures above 120°F (49°C). Can may burst if left in areas susceptible to high temperatures, such as motor vehicles or near radiators, stoves or other sources of heat.

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) (English) 1-800-363-6210 (French)

10 Filing Systems

- www.dowstyrofoam.com/architect
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- www.insulateyourhome.ca

IN THE U.S.:

- For Technical Information: **1-866-583-BLUE (2583)**
- For Sales Information: **1-800-232-2436**

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IN CANADA:

- 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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COMBUSTIBLE: GREAT STUFF™ Pro Window & Door insulating foam sealant should be stored away from heat sources. 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.

GREAT STUFF™ Pro insulating foam sealants contain isocyanate, hydrofluorocarbon or hydrocarbon blowing agent and polyol. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves and goggles and provide adequate ventilation and/or wear proper respiratory protection.

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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