

GREYSEAL | 2lb Closed-Cell Foam

Product Description

GREYSEAL is a closed-cell, medium density spray polyurethane foam insulating material that has been tested by an independent laboratory and evaluated by the **Canadian Construction Materials Centre (CCMC 14864-L)**. It complies with the CAN/ULC-S705.1-15 "Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification." GREYSEAL must be applied by UFC licensed installers under the application standard CAN/ULC S705.2.

Product Composition

GREYSEAL is a low VOC emitting and low GWP (Global Warming Potential) <1 (Kg CO² eq) material. It can be used for residential, industrial, and institutional building application where proper insulation is needed. The site sprayed foam system consists of two components, isocyanate and resin. The colour of the cured foam is grey.

Storage and Handling

Store and ship this product in a well-ventilated, dry, shaded or covered environment at 10-32°C (50-90°F).

- The product should be stored in sealed containers, to avoid absorption of water vapour
- During transportation, protect the product from excessive vibration and avoid sunlight exposure
- The product should be stored in a ventilated space, away from light, water, and fire

Precautions

Like many construction materials, spray polyurethane foam is a combustible product. Therefore installers and occupants are to take precautions and safety measures to ensure the foam does not come into contact (within 75 mm) of any devices that have a surface temperature exceeding 80°C. Once application is completed, foam shall be protected with a thermal barrier in accordance with the local building code requirements for a suitable thermal barrier (e.g., drywall).

Physical Properties

Attribute	Test	Result
Apparent Core Density	ASTM E1622-14	36 kg/m ³
Compressive Strength	ASTM D1621-16	164 kPa
Tensile Strength	ASTM D1623-17	300 kPa
Open Cell Content	ASTM D6226-15	3%
Water Absorption	ASTM D2842	4%
Water Vapour Permeance	ASTM E96	46 ng/(Pa·s·m ²)
Dimensional Stability (Volume Change After 28 Days)	ASTM D2126-15	+2%, -20°C +1%, 80°C +10%, 70°C & 97% ±3%RH
Surface Burning Characteristics	CAN/ULC S102	<400
Surface Burning Characteristics	CAN/ULC S127	260
Air Permeance, L/s @ 75 Pa (Material Only Testing)	ASTM E2178-13	0.002 (L/s.m ²)
Time of Occupancy (VOC)	CAN/ULC S774:2020	25 hours
Fungi Resistance	ASTM C1338	No Growth
Hot Surface Temperature		90°C

Long Term Thermal Resistance (LTTR)

Thickness	R Value
50.8 mm / 2 in	10.8
76.2 mm / 3 in	17.4
101.6 mm / 4 in	24
127 mm / 5 in	31
152.4 mm / 6 in	37
177.8 mm / 7 in	43.6

Test Method: CAN/ULC S770-09

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Application Information

In accordance with National Building Code of Canada CAN/ULC S705.2, it is required to apply this product in single passes of minimum 15 mm (0.6 inches) to maximum 50 mm (2 inches). Required cooling time between passes must be followed. If the application falls outside the scope of the National Building Code of Canada CAN/ULC S705.2, it can be applied in single passes of minimum 15 mm (0.6 inches) to maximum 50 mm (2 inches). Failing to adhere to the minimum required cooling time increases the likelihood of experiencing post-growth scorching and/or fire hazards.

It is the applicator/contractors responsibility to determine the suitability and performance of the material for the project. Other preparation techniques or application information may be required for unique specialized projects. Contact a GREYSEAL Technical Representative for more information.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read Safety Data Sheets and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your GREYSEAL Representative.

Application Thickness

Passes	Single Pass Thickness	Total Thickness	Foam Core Temperature
2	2"	4"	0 minutes*
3	2"	4" to 6"	15 minutes
4	2"	6" to 8"	30 minutes

*If the temperature of the initial 2 inches exceeds 107°F (41.7°C), it is suggested to take a 5-minute break between the first two passes of winter foam.

Liquid Component Properties

Attribute	Result	
Shelf Life	6 months	
Storage Temperature	10°C - 32°C (50°F - 90°F)	
Mix Ratio by Volume	1:1 of A:B	
Viscosity @ 25°C (77°F)	150 - 250 cps (Part A)	600 cps (Part B)
Specific Gravity @ 25°C (77°F)	1.24 kg/L (Part A)	1.18 kg/L (Part B)

DISCLAIMER: This data is based on information believed to be reliable and is offered solely for evaluation. GREYSEAL products are sold with the understanding that the Buyer determines the suitability of this product for its particular application. Product owner assumes all risk for misuse of the materials. Use of this product is beyond the control of the Seller, the Buyer assumes all risks of use or handling. GREYSEAL assumes no liability for mis-application or any other error or omission of applicator. For warranty conditions refer to terms listed in GREYSEAL Manufacturer's Defect Warranty. Contact your GREYSEAL representative for more details.