



TECHNICAL DATA SHEET



QUAD[®] Foam[™] Window & Door Installation Foam

Description: LePage QUAD Foam Window & Door Installation Foam is a single component, minimal expansion and low pressure polyurethane foam packaged in a pressurized metal container. It is specifically designed for use with the LePage QUAD Window & Door System. It is dispensed in bead form for sealing gaps and cracks, holes and voids around windows and doors, in most types of construction projects. The product exhibits slight to moderate expansion during application and cures upon reaction with moisture to form a flexible, urethane foam. The closed cell structure of this material provides an R factor of 5 per inch of cured foam making it an efficient method for stopping air and moisture infiltration and expensive warm and cold air loss between windows and rough frame. LePage QUAD Foam will not warp or deform windows and doors. LePage QUAD Foam adheres to all types of building materials including wood, concrete, and drywall and is compatible with asphalt and butyl flexible flashing.

Available As:

Item #	Size	Color
1482482	598 g (21.1 oz)	Tan

Features & Benefits:

- Low Foam Pressure/Low Expansion – will not warp or deform windows and doors
- Quick Setting Formulation – can be cut or trimmed in less than 1 hour
- Cold Temperature Application (-10°C)
- Insulation Value of R5/inch
- Closed Cell Structure does not absorb moisture
- Flexible/Will not crack or dry out

Recommended For:

LePage QUAD Foam is part of the LePage QUAD Window & Door System and is used to insulate and seal around windows and door frames. It can also be used for jambs, mud sills, header joints, corner joints, top plate penetrations, electrical and plumbing penetrations and other areas where air infiltration or heat loss may occur. Bonds most building materials including vinyl, aluminum, fiberglass, wood, OSB, PVC, concrete and metal.

For Best Results:

- LePage QUAD Foam is not a fire stopping material and SHOULD NOT be used in areas that require fireproof or fire stopping materials
- Urethane foams are adversely affected by sunlight (UV light). Exposed foam must be coated with a protective covering or coating
- Do not store product on its side
- Does not bond to polyethylene, polytetrafluoroethylene (PTFE)/Teflon[®] or siliconized surfaces
- For cold weather applications, product should be stored above 5°C (41°F) at least 12 hours before application.

Coverage:

For a 598 g (21.1 oz) can:

- A 3/8" (9.6 mm) bead size will deliver approximately 320 m (1051 ft) of foam
- A 1/2" (12.7 mm) bead size will deliver approximately 186 m (611 m) of foam

Please note: Yields shown are based on theoretical calculations, for comparison purposes, and will vary depending on ambient conditions and particular application.



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Typical Uncured Physical Properties:

Color:	Tan	
Appearance:	Minimal expansion foam	
Base:	Single component polyurethane	
Odor:	Ether-like	
Specific Gravity:	1.107	
Flash Point:	<-18°C (0°F)	
% Solids by Weight:	70%	
VOC Content:	16% by weight	CARB
	177 g/l	SCAQMD rule 1168
Shelf Life:	18 months from date of manufacture (unopened)	
Lot Code Explanation:	DD/MM/YYYY (bottom of canister – cans produced before June 2015) MM/DD/YYYY (bottom of canister – cans produced June 2015 and later) DD/MM/YY (on box) OR BEST BY: MM/DD/YYYY (bottom of canister – cans produced January 2016 and later) DD = Day of manufacture OR DD = Day of expiration MM = Month of manufacture MM = Month of expiration YYYY (or YY) = Year of manufacture YYYY = Year of expiration Example: 28/10/2015 or 10/28/2015 or 28/10/15 = Manufactured October 28, 2015 BEST BY: 10/28/2017 = Product is best before (expires on) October 28, 2017	

Typical Application Properties:

Application Temperature:	Product should be stored above 5°C (41°F) at least 12 hours before application. During application, working environment and substrates should be between -10°C (14°F) and 30°C (86°F).	
Tack-Free Time:	Approx. 8 to 10 minutes*	At 23°C, 50% relative humidity and 3 cm diameter bead
Cure Time:	Approx. 25-35 minutes*	
Cure Time:	Approx. 1 to 6 hours*	
	*Time is dependent on temperature, humidity, porosity of substrate and depth of sealant applied	

Typical Cured Performance Properties:

Color:	Tan	
Service Temperature:	-40°C (-40°F) to 90°C (194°F) -40°C (-40°F) to 110°C (230°F)	Long-term exposure Short-term exposure
Surface Burning Characteristics:	ASTM E84	
Flame Spread :	10	
Smoke Development:	25	
Pressure Test for Polyurethane Foam:	AAMA 812	
Pressure Build-Up:	0.2471 psi	
Deflection:	0.0050 inches	
Specifications:	<ul style="list-style-type: none"> ▪ ASTM E84 ▪ AAMA 504 Voluntary Laboratory Test Method to qualify Fenestration Installation Procedures ▪ AAMA 812 Pressure Test for PU Foam ▪ GreenGuard Certified ▪ **Conforms to ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights, Annex A1, Type A – Low Pressure Foam Sealant 	

**The LePage QUAD Window & Door System uses similar practices and principle as ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights. ASTM E2112 is intended to provide technical guidance to organizations that are developing training programs for installers of fenestration units. The majority of fenestration units and materials used to install them are certified as meeting specified performance characteristics. The LePage QUAD Window & Door System products have been tested in accordance with the relevant specifications required for performance under both ASTM and AAMA guidelines. The specifications for each product are listed on each components individual technical data sheet.



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Directions:

Tools Typically Required:

Foam Gun, LePage Foam Clean (IDH 2050457) and utility knife. Painter's tape for protecting surfaces. .

Safety Precautions:

Always wear eye protection, gloves and proper work clothes when using LePage QUAD Foam. Wash hands after use. Cured foam is difficult to remove from skin, clothing and other substrates. It may discolor skin.

Preparation:

Read all operating instructions packaged with the dispensing unit before using. All surfaces must be free of dust, dirt, oil and other foreign materials. Cover surfaces not intended to be foamed as cured foam is difficult to remove. The temperature of the product must be kept at 5°C (41°F) and for best results between 20°C and 25°C (68°F and 77°F) for at least 12 hours before application (see storage below). Under these conditions, the product can be applied when the surfaces and working area are between -10°C to 30°C (14°F and 86°F). Shake can well before use. Screw applicator onto coupling unit until it will go no further. Do not over tighten. Shake can well before use (minimum of 15 times).

Application:

Using the foam gun, perimeter seal around window, doors and rough openings. Fill the gap to approximately 30%. Foam is tack-free in 8 - 10 minutes* and fully cured in approximately 1 to 6 hours*. If necessary, any excess cured foam can be trimmed with a sharp knife in approximately 10 minutes* or sanded after approximately 1 hour*. Cured foam exposed to prolonged sunlight must be covered with exterior grade paint, stain or sealant.

Notes:

- Insufficient air, humidity and/or substrate moisture during application may cause delayed curing or improper cell formation of the foam material. Lightly spraying the cavities with a water atomizer in dry or low humidity climates will allow the foam to cure and develop proper cell structure.
- If possible, avoid direct sunshine to the joint during application. Direct sunshine and high temperatures may cause the foam to sag and flow out of the joint during application and before curing. Cooling the can down prior to application may help to prevent this issue.

Clean-up:

Clean tools and uncured product residue immediately with LePage Foam Cleaner. Cured foam is not affected by solvents and is extremely difficult to remove.

Storage & Disposal:

Product must be stored vertically, not horizontally on its side.

Note: When storing foam dispensing applicators with foam cans attached, be sure to store the tool with the can valve pointing downwards. Storing the can upright may cause propellant to leak and the foam applicator to become inoperative.

Store in a cool, dry place. For maximum performance and shelf life, store between 5°C (41°F) and 25°C (77°F). The product can be stored for a maximum of 1 week at -20°C (-4°F). Do not store below -20°C (-4°F), below this temperature product valve may spontaneously open resulting in leakage.

Containers are under pressure. Do not expose to open flame or temperatures above 49°C (120°F). Do not store under direct sunlight. Excessive heat can cause bursting and premature aging of components resulting in shorter shelf life. When containers are empty, vent off any excess pressure. DO NOT discard empty can in garbage compactor. DO NOT incinerate. DO NOT puncture, cut or weld container.

Recommended method of disposal for unused product: Vent off excess pressure and dispose of in an appropriate waste receptacle. Dispose of according to provincial and federal governmental regulations.

Label Precautions:

EXTREME DANGER. VERY FLAMMABLE. POISON. CONTENTS UNDER PRESSURE.

CONTENTS MAY BE HARMFUL. CONTENTS MAY CATCH FIRE. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. CONTAINER MAY EXPLODE IF HEATED. Do not smoke. Do not puncture. Do not burn. Do not get in eyes or on skin or clothing. Do not breathe fumes. Do not swallow. Use only in a well ventilated area. Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Store away from heat. Do not use if you have chronic lung or breathing problems or if you have ever had a reaction to isocyanates. Wear appropriate respiratory protection for prolonged use. If you have breathing problems during use, leave the area for fresh air. If problems develop or linger, call a physician. **KEEP OUT OF REACH OF CHILDREN.**

FIRST AID TREATMENT: Contains modified polymeric MDI, diphenylmethandiisocyanate, tris(2-chloroisopropyl) phosphate, dimethylether and hydrocarbon propellant. If swallowed, call Poison Control Center or doctor immediately. Do not induce vomiting. If breathed in, move person into fresh air. If in eyes or on skin, rinse well with water. Refer to the Safety Data Sheet (SDS) for further information.

Refer to Material Safety Data Sheet (MSDS) for further information.



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Disclaimer:

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.



LePage Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.

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