



# TECHNICAL DATA SHEET

WINDOW, DOOR & SIDING SEALANT

## QUAD<sup>®</sup> MAX

STRETCHES 5X



**Description:** LePage<sup>®</sup> QUAD<sup>®</sup> MAX is the next generation of siding and window sealant that offers maximum durability and maximum application performance for use in any condition interior or exterior. LePage QUAD MAX takes the guess work out of color matching with matches to primary building material manufacturers. It has been proven to stick on wet and cold surfaces and offers long term durability against the harmful effects of sun exposure. Unlike traditional solvent sealants, LePage QUAD MAX is resistant to bubbling and has no shrinkage. By providing superior protection against air and moisture, you've done it right the first time.

**Available As:**

Item #	Size	Color
Various	280 ml (9.5 fl oz)	Various

**Features & Benefits:**

- Proven Wet Surface Application
- Better Flexibility: 5x Stretch & ± 50% Joint Movement
- Consistent Bead in Hot or Cold Temperatures: -18°C to 60°C Application
- 24 Hour Fast Cure for Quicker Protection\*
- Available in Multiple Colors
- Paintable in 1 Hour
- Strong Adhesion to More Building Materials Without Primer
- Enhanced UV Resistance

**Recommended For:**

LePage QUAD MAX is designed for interior/exterior use for sealing around windows, doors and siding. It bonds to a wide variety of materials without need for a primer such as fiber cement, cedar, brick, stone, coated aluminum, fiberglass, vinyl, PVC, stucco, EIFS, wood, glass, concrete, masonry and flashing tapes.

**For Best Results:**

- Do not use joints immersed in water or applications requiring continuous water immersion
- Do not use as a traffic bearing sealant or in log homes
- For joints deeper than 9.5 mm (3/8"), a backing material should be used

\*\*Note: Current label states not for use on polystyrene foams but this product has been tested and proven to be compatible with this material.

**Coverage:**

- For a 280 ml (9.5 fl. oz) cartridge:  
A 6 mm (1/4") bead extrudes approximately 8.9 m (29.1 ft.)  
A 9.5 mm (3/8") bead extrudes approximately 3.9 m (12.9 ft.)



# TECHNICAL DATA SHEET

## Typical Uncured Physical Properties:

Color:	Various colors	
Appearance:	Non-slumping paste	
Base:	Silane Modified Polymer	
Odor:	Alcohol	
Specific Gravity:	1.4 – 1.5	
Flash Point:	107° C (224.6° F)	
VOC Content:	2.48% by weight	CARB
	36 g/l	SCAQMD rule 1168
Shelf Life:	24 months from date of manufacture (unopened)	Under cool, dry storage conditions
Lot Code Explanation:	<b>YYDDD</b> <b>YY</b> = Last two digits of year of manufacture <b>DDD</b> = Day of manufacture based on 365 days in a year Example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply between -18°C (0°F) and 60°C (140°F) For easier extrusion of sealant at lower temperatures, store cartridge at room temperature at least 24 hours prior to use	
Skin Formation Time:	20-30 minutes*	At 22°C and 70% relative humidity
Cure Time:	24-72 hours* *Cure time is dependent on temperature, humidity and depth of sealant applied	
Extrusion Rate:	42 ml/min	ASTM C1183 (Procedure A)
Vertical Sag:	0 inches	ASTM C639

## Typical Cured Performance Properties:

Color:	Various colors	
Service Temperature:	-26°C (-14.8°F) to 70°C (158°F)	
Water Resistant:	Yes	
Paintable:	Yes, with latex paint	
Nail-Hole Filling:	Suitable when painted	
Bubble Resistant:	Yes	
Hardness:	32	ASTM C661
Joint Movement:	± 50%	ASTM C719
Tensile Strength:	1.61 N/mm <sup>2</sup> (234 psi)	ASTM D412
Maximum Elongation:	577%	ASTM D412
180° Peel Adhesion:	ASTM C794	
PVC Trim:	8336 N/m (47.6 lb/in)	
Fiber Cement:	8231 N/m (47.0 lb/in)	
Coated (Painted) Aluminum:	8949 N/m (51.1 lb/in)	
Vinyl Siding:	9579 N/m (54.7 lb/in)	
Mortar:	7355 N/m (42.0 lb/in)	
Specifications:	Meets the performance requirements of: <ul style="list-style-type: none"><li>• ASTM C 920: Type S, Grade NS, Class 50</li><li>• Federal Spec. TT-S-00230C, Type II</li><li>• AAMA 800 &amp; AAMA 713-08</li><li>• ASTM C1382 (EIFS)</li><li>• GreenGuard® Certified</li></ul>	



# TECHNICAL DATA SHEET

**Directions:** Tools Typically Required: Utility knife and caulking gun.

Safety Precautions: Wear gloves and wash hands after use.

Surface Preparation: Ensure all surfaces are clean and free of old caulk, grease, dust, ice, snow, frost, surface water and other contaminants. While QUAD MAX is generally considered a non-priming sealant, special circumstances or substrates may require a primer. It is the user's responsibility to test substrate compatibility and the adhesion of the cured sealant on a test joint before applying to the entire project.

Masonry: Concrete, stone, stucco and other masonry must be cleaned where necessary by grinding or wire brushing to expose a sound surface free of contamination and laitance. Concrete must be fully cured and free of release agents.

Wood and painted wood: New and weathered wood must be clean and structurally sound. Cut back weathered surfaces and dry rot until clean, sound wood is reached. Scrape away paint to bare wood. Any coating that cannot be removed must be tested to verify adhesion of the sealant. QUAD® MAX will adhere to most new and old, dry, oil-free wood.

Metal: Remove scale, rust, and residue from metal to expose a bright metal sheen by wire brushing. Remove any chemical residue, film/oils, and loose or incompatible coatings using the appropriate solvent. Any coating that cannot be removed must be tested to verify adhesion of the sealant. Remove any other coatings or finishes that could interfere with adhesion. An adhesion test is recommended for anodized aluminum or any questionable substrates.

Joint Preparation: The number of joints and the joint width should be designed for a maximum of ± 50% joint movement from the initial joint width. The depth of the sealant joint should be one-half the width of the joint. The maximum depth is 13 mm (½ inch) and the minimum is 6 mm (¼"). The maximum recommended joint width is 15 mm (5/8 inches). See table below.

Joint Width (inches)	Sealant Depth @ Midpoint (inches)
1/4	1/4
1/2	1/4
5/8	1/2

Joint Width (mm)	Sealant Depth @ Midpoint (mm)
6	6
13	6
15	13

If the depth of the joint exceeds 9.5 mm (3/8") the use of a backer rod such as a Closed-Cell Backer-Rod or Soft Backer-Rod is recommended. Where the joint depth does not permit the use of backer-rod, a bond breaker (polyethylene strip) must be used to prevent three-sided adhesion. To maintain the recommended sealant depth, install backer-rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed-Cell Backer-Rod should be approximately 3 mm (1/8") larger in diameter than the width of the joint to allow for compression. Soft Backer-Rod should be approximately 25% larger in diameter than the joint width. Backer-rod becomes an integral part of the joint. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer-rod.

General Preparation: The temperature of the product, the surfaces and the working area should be between -18°C (0°F) and 60°C (140°F). For best performance, store cartridge at room temperature at least 24 hours before use. Cut plastic nub of cartridge then screw on plastic nozzle. Insert cartridge into caulking gun, cut nozzle at a 45° angle to desired bead size (3/8" is recommended for optimal joint protection) and puncture inner seal.

Application: Using a caulking gun, apply sealant with steady pressure, forcing sealant into joint. If the depth of the joint exceeds 9.5 mm (3/8") the use of a backer rod is recommended. LePage QUAD MAX will not pop or splatter and will dispense smoothly on extrusion from the cartridge. Tooling of the sealant is allowed. Full cure may take 24-72 hours or longer depending on ambient conditions and volume of sealant used. Sealant is paintable in 1 hour. Latex paint is recommended. If using oil based/alkyd paint, a latex primer should be used first.

Users can refer to ASTM C1193 – Standard Guide for Joint Sealants for further installation/application information. Henkel recommends that you test all sealant applications under simulated or actual end use conditions to ensure the product meets or exceeds all required project specifications. Since assembly conditions may be critical to the product's performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions.

Clean-up: Clean tools and uncured sealant residue immediately with mineral spirits or paint thinner. Cured sealant must be carefully cut away with a sharp-edged tool.



# TECHNICAL DATA SHEET

**Storage & Disposal:** NOT DAMAGED BY FREEZING. For optimal shelf life, store in a cool, dry place in a tightly closed container. Do not let moisture contaminate product. Product reacts with water to release carbon dioxide which could build up pressure in the contained. Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

**Label Precautions:** **CAUTION. IRRITANT.** Use in a well-ventilated area. Methanol is released during application and curing, which may affect the nervous system causing dizziness, headache or nausea. Avoid eye and skin contact. Prolonged or repeated skin contact with uncured sealant may cause irritation. Wear gloves and safety glasses when applying product. Remove contact lenses before using sealant. Wash hands after using. **FIRST AID:** For skin contact, wash with soap and water. In case of eye contact flush with water for 15 minutes. If affected by inhalation, remove to fresh air and get medical attention. If swallowed, do not induce vomiting; call a physician if symptoms develop or persists. **KEEP OUT OF THE REACH OF CHILDREN.**

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

**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.

**Henkel Corporation - Professional & Consumer Adhesives Headquarters – Mississauga, ON L5N 6C3**  
[www.henkelna.com](http://www.henkelna.com)

Revision Date: 02/25/2015 Supercedes: 10/02/2014 Ref. #: 477554