



# TECHNICAL DATA SHEET



## QUAD<sup>®</sup> VOC Window, Door & Siding Sealant

**Description:** LePage QUAD VOC Window, Door & Sealant is composed of elastomeric polymers and high quality synthetic resins. This product offers the superior adhesion characteristics and unmatched elasticity found in high performance sealants. It yields a tough, rubbery seal which resists outdoor weather-related elements like water, oxygen, ozone, heat and UV light. The formula skins over in a short time to resist dirt and dust pickup. It goes on smoothly and has easy cut-off without stringing. When cured, the surface displays a slight sheen similar to some silicone sealants. QUAD VOC Window, Door & Siding is paintable with either latex or oil-based paints. This low VOC formulation meets stringent VOC requirements.

**Available As:**

Item #	Size	Package	Color
Various	295 ml	Paper Cartridge	Various

**Features & Benefits:**

- All-Weather Performance: -7°C to 38°C
- Resists Dirt & Dust Collection
- Paintable and Durable
- UV and Water Resistant
- Permanently Flexible
- No Air Pops
- Low VOC Formulation
- Available in a Variety of Colors Manufactured to Match Most Window, Door & Siding Colors

**Recommended For:**

Sealing around exterior windows and doors, fiber-cement and vinyl siding, PVC trim, roofing and gutters. It bonds without a primer to most common substrates like cedar, painted or stained woods, fiberglass, vinyl, coated aluminum, steel, metal, brick, stone and concrete.

**For Best Results:**

- Do not use for sealing expansion joints, including butt joints
- Not compatible with polystyrene foams and polypropylene or polyethylene plastics
- Do not use in applications requiring continuous water immersion
- Do not use as a traffic bearing sealant, on log homes or inside occupied structures
- For best results, should not be used in applications less than ¼" in depth in order to maintain the integrity of the sealant
- Do not use to fill nail holes
- For joints deeper than 9.5 mm (3/8"), a backing material should be used
- Tooling, feathering or smearing of the sealant is not necessary or recommended

**Coverage:**

For a 295 ml cartridge:

- A 6 mm (1/4") bead extrudes approximately 9.3 m (30.6 ft)
- A 9.5 mm (3/8") bead extrudes approximately 4.1 m (13.6 ft)



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## Typical Uncured Physical Properties:

Color:	Various	
Appearance:	Lump-free paste	
Base:	Elastomeric polymers and synthetic resins	
Odor:	Solvent	
Specific Gravity:	1.28	
Flash Point:	44° C (120° F)    Uncured product is flammable	
% Solids by Weight:	73%	
VOC Content:	<1.5% by weight	CARB
	<194 g/l	SCAQMD rule 1168
Shelf Life:	24 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>YYDDD</b>	
Printed on cartridge body	<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 -7°C (20°F) and 38°C (100°F) For low temperature extrusion, store cartridge at room temperature at least 24 hours prior to use	
Skin Formation/Tooling time:	4 to 6 minutes*	At 22°F and 70% relative humidity
Tack Free Time:	Approximately 60 minutes*	
Cure Time:	7-14 days or longer*	
	*Time is dependent on temperature, humidity and depth of sealant applied	
Extrusion force:	57 lbs	At 22°C
Boeing Sag (15 min):	1.27 mm (0.05 inches)	At 49°C

## Typical Cured Performance Properties:

Color:	Various	
Service Temperature:	-29°C (-20°F) to 93°C (200°F)	
Water Resistant:	Yes	
Paintable:	Yes, after sealant is fully cured	
Shrinkage:	18%	
Hardness:	50	Shore A
180° Peel Adhesion:	ASTM C794	
Vinyl siding:	3.5 N/mm (20 pli)	
Painted Aluminum:	3.5 N/mm (20 pli)	
Elongation:	878 ± 26%	ASTM D412 Die C
Tensile Strength:	524 ± 39 psi	ASTM D412 Die C
Specifications:	Meets the performance requirements of: <ul style="list-style-type: none"><li>• ASTM C 920: Type S, Grade NS, Class 25, Use NT</li></ul>	



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**Directions:****Tools Typically Required:**

Utility knife and caulking gun. For best application results, use a high quality caulk gun.

**Safety Precautions:**

Do not use inside occupied structures. Wear gloves and wash hands after use.

**Preparation:**

Apply sealant between -7°C (20°F) and 38°C (100°F). For easier extrusion of sealant at lower temperatures, the material should be kept at room temperature 24 hours prior to use. All surfaces must be clean, dry and free of old caulk, grease, dust, ice, snow, surface water and other contaminants. Insert cartridge into caulking gun, apply moderate pressure in order to break the Break-A-Way Seal™ inside the nozzle. Cut the tip off the cartridge at a 45° angle to desired bead size (3/8" is recommended).

**Application:**

Using a caulking gun, apply sealant with steady pressure, forcing the sealant into the joint. If the depth of the joint exceeds 9.5 mm (3/8") the use of a backer rod is recommended. LePage QUAD will not pop or splatter and will dispense smoothly on extrusion from the cartridge. Tooling of the sealant is not necessary or recommended. Do not feather or smear sealant. Sealant is paintable when fully cured. Full cure may take 7 - 14 days or longer depending on ambient conditions and volume of sealant used. Latex paint is recommended. If using oil based/alkyd paint, a latex primer should be used first.

**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.

**Storage & Disposal:**

NOT DAMAGED BY FREEZING. Store in a cool, dry place. Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

**Label Precautions:**

**DANGER. FLAMMABLE. IRRITANT.**

**FUMES MAY CATCH FIRE AND MAY BE HARMFUL. MAY IRRITATE EYES AND SKIN. FLAMMABLE.** Do not smoke. 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. Do not get in eyes or on skin or clothing. Do not breathe fumes. Do not swallow. **KEEP OUT OF THE REACH OF CHILDREN. FIRST AID TREATMENT:** Contains xylene and mineral spirits. If swallowed, call a Poison Control center or doctor immediately. Do not induce vomiting. If in eyes or on skin, rinse well with water. If breathed in, move person to fresh air.

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

**Disclaimer:**

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

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