



# TECHNICAL DATA SHEET

## WINDOW, DOOR & SIDING SEALANT

# QUAD®

## ALL SEASON FORMULA



**Description:** OSI QUAD Window, Door & Siding Sealant is an all season formula designed for superior performance on exterior window, door and siding applications. It can be applied to wet or dry surfaces, even at freezing temperatures. And unlike other sealants, it resists dirt & dust collection, yellowing and water washout. OSI QUAD is self-tooling and once cured is paintable with latex paints. Our color specialists work closely with leading window, door and siding manufacturers to ensure perfect color matches. OSI QUAD 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. 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.

### Available As:

Item #	Size	Color
Various	10 fl oz (295 ml)	Various

### Features & Benefits:

- All-Weather, Superior Performance
- Permanently Flexible with 3x Stretch
- 20°F-120°F and Wet Surface Application
- UV and Water Resistant – will not crack or yellow
- Resists Dust & Dirt Collection
- 3,500 Color Matches & Counting
- Paintable
- 4" Professional Spout

### Recommended For:

OSI QUAD is used to seal around exterior windows and doors, fiber-cement and vinyl siding, PVC trim, roofing and gutters, bonds without a primer to most common substrates like cedar, painted or stained woods, fiberglass, vinyl, coated aluminum, steel, metal, brick, masonry 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 1/4" in depth in order to maintain the integrity of the sealant
- Do not use to fill nail holes
- For joints deeper than 3/8" (9.5 mm), a backing material should be used
- Tooling, feathering or smearing of the sealant is not necessary or recommended

### Coverage:

For a 10 fl. oz. (295 mL) cartridge:

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



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## Typical Uncured Physical Properties:

Color:	Various colors	
Appearance:	Non-slumping paste	
Base:	Elastomeric polymers and synthetic resins	
Odor:	Solvent	
Specific Gravity:	1.28	
Flash Point:	112° F (44° C)    Uncured product is flammable	
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 bottom plunger of cartridge	<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 20°F (-6°C) and 120°F (49°C) For easier extrusion of sealant at lower temperatures, store cartridge at room temperature at least 24 hours prior to use	
Skin Formation Time:	4 to 6 minutes*	At 72°F and 70% relative humidity
Tack Free Time:	Approximately 7 hours*	
Cure Time:	7-14 days or longer*	
	*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:	-20°F (-29°C) to 200°F (93°C)	
Water Resistant:	Yes	
Paintable:	Yes, after sealant is fully cured	
Shrinkage:	23%	
Hardness:	22	ASTM C661
Joint Movement Capability:	± 25%	ASTM C719
Elongation:	550%	ASTM D412 Die C
Tensile Strength:	Approx. 100 psi after 21 days cure	ASTM D412 Die C
180° Peel Adhesion:	ASTM C794	
PVC Trim:	12.9 lbf	
Fiber Cement:	19.8 lbf	
Coated Aluminum:	12.8 lbf	
Vinyl Siding:	11.5 lbf	
Mortar:	17.9 lbf	
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> <li>• Federal Spec. TT-S-00230C, Type II</li> </ul>	



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**Directions:**

**Tools Typically Required:**

Utility knife and caulking gun. For best application results, OSI recommends the use of a high quality caulking gun such as the Albion® B12 Cartridge Gun.

**Safety Precautions:**

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

**Preparation:**

Apply sealant between 0°F (-18°C) and 120°F (49°C). 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 3/8" (9.5 mm) the use of a backer rod is recommended. OSI 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.

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**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.

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**Label Precautions:**

**WARNING! FLAMMABLE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION.**

**WARNING!** Contains mineral spirits, xylene, ethylbenzene, and crystalline silica. **FLAMMABLE.** Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish all flames and pilot lights and turn off all sources of ignition, including stoves, heaters and electric motors during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage or may cause cardiac arrhythmia. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

**Refer to the Safety Data Sheet (SDS) for further information.**

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**Limited Warranty:**

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.

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**OSI Tougher than the Elements. For Professional Use Only. The Battle will be Fierce.**

OSI works side by side with residential builders, contractors and remodeling professionals who use our products everyday on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET

[www.ositough.com](http://www.ositough.com)



OSI 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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