



TECHNICAL DATA SHEET



QUAD®

Advanced Formula Sealant

Henkel Corporation

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DESCRIPTION

OSI® QUAD® Advanced Formula 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® is paintable with either latex or oil-based paints

RECOMMENDED FOR:

Sealing around windows, doors, fiber-cement siding, vinyl siding, roofing and gutters. It bonds without a primer to most common substrates like cedar, fiberglass, aluminum, masonry and concrete.

LIMITATIONS:

- 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, the sealant should not be used in applications less than 1/4" in depth in order to maintain the integrity of the sealant. Do not feather or smear 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 of the sealant is not necessary or recommended.

FEATURES & BENEFITS

Feature	Benefits
Withstands moderate expansion-contraction cycles.....	Permanently flexible; Will not crack or split even over temperature extremes
Water-resistant.....	Great for outdoor applications
No Air Pops.....	Quad will not pop or splatter & will dispense smoothly on extrusion from the cartridge
Paintable and durable.....	Long-lasting, professional finish
Available in a variety of colors.....	Manufactured to match most window, door and siding colors

Color	Item #	Package	Size
3" Spout / Nozzle			
Clear	827836	Paper Cartridge	10 fl. oz.
White	827838	Paper Cartridge	10 fl. oz.
4" Spout / Nozzle			
Clear	827837	Paper Cartridge	10 fl. oz.
White	827839	Paper Cartridge	10 fl. oz.

COVERAGE

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

A 1/4" (6 mm) bead extrudes approximately 31 ft. (9.3 m).

A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m).

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 20°F (-7°C) and 100°F (38°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 and other contaminants. Insert cartridge into caulking gun, apply moderate pressure in order to break the "Break Away" 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. Quad will not pop or splatter and will dispense smoothly on extrusion from the cartridge. Tooling of the sealant is not necessary or recommended. 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 an 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 AND 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

WARNING! FLAMMABLE. CONTAINS MINERAL SPIRITS AND XYLENE. Vapors may cause flash fires. Prevent build-up of vapors. Use only in areas with cross ventilation. Open all windows and doors during application and curing. Keep away from spark and open flame. Avoid breathing of vapors. Avoid prolonged or repeated skin contact. Wash hands after handling. Avoid contact with eyes and skin. Do not take internally. If swallowed, seek medical attention immediately.
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.

TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Clear and White	<u>Application Temperature:</u>	Apply between 20°F (-7°C) and 100°F (38°C)
<u>Appearance:</u>	Lump-free paste		
<u>Base:</u>	Elastomeric polymers and synthetic resins		Note: For easier extrusion of sealant at lower temperatures, store cartridge at room temperature at least 24 hours prior to use.
<u>Odor:</u>	Solvent	<u>Skin Formation Time:</u> (At 72°F and 70% relative humidity)	40 min.
<u>Specific Gravity:</u>			
Clear:	1.2	<u>Tack-Free Time:</u>	8 hours
White:	1.2	<u>Cure Time:</u>	7 days (Cure time is dependent upon temperature, humidity and depth of sealant applied.)
<u>Flash Point:</u>	80°F (26.7°C) Uncured product is flammable.		
<u>% Solids by Weight:</u>		<u>Extrusion:</u>	
Clear:	65%	At Room Temperature:	56 lbs
White:	75%	At 43°F (6°C):	88 lbs
<u>VOC Content:</u>		<u>Boeing Sag (15 minutes):</u>	
Clear:	< 340 g/L (< 35% by weight)	Room Temperature:	0.05 inches
White:	< 340 g/L (< 25% by weight)	120°F (49°C):	0.10 inches
<u>Shelf Life:</u>	24 months from date of manufacture (unopened)		
<u>Lot Code Explanation:</u>	YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year For example: 09061 = 61 st day of 2009 = March 2, 2009		
(Lot code stamped on bottom plunger of cartridge)			

Typical Cured Performance Properties

<u>Color:</u>	Clear and White	<u>Service Temperature:</u>	-20°F (-29°C) to 200°F (93°C)
<u>Shrinkage:</u> (ASTM D 2453)	14.1%	<u>Paintable:</u>	Yes after sealant is fully cured
<u>Hardness, Shore A:</u>	45	<u>Water Resistant:</u>	Yes
<u>Elongation:</u>	1250%	<u>Specifications:</u>	Meets the performance characteristics of: ■ ASTM C920: Type S, Grade NS, Class 25, Use NT
<u>Extension Recovery:</u>	85%		
<u>Movement Capability:</u>	± 25%		
<u>Tensile Strength:</u>	182 psi		
<u>180° Peel Adhesion:</u> (ASTM C794)			
Painted Aluminum Flashing :	25.2 pli		
Vinyl Siding:	27.5 pli		