



TECHNICAL DATA SHEET



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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.

NOT RECOMMENDED FOR:

- Sealing expansion joints, including butt joints
- Bonding polystyrene foams and polypropylene or polyethylene plastics
- Continuous water immersion
- Use as a traffic bearing sealant
- Use on log homes
- Use inside occupied structures
- Joints deeper than 3/8" (9.5 mm) without the use of backing material or for applications less than 1/4" in thickness
- Not to be used to fill nail holes

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
Paintable and durable.....	Long-lasting, professional finish
Available in a variety of colors.....	Manufactured to match most siding colors

Color	Item #	Package	Size
Clear	827837	Paper Cartridge	10.2 fl. oz.
Clear	827836	Paper Cartridge	10.2 fl. oz.
White	827839	Paper Cartridge	10.2 fl. oz.
White	827838	Paper Cartridge	10.2 fl. oz.
Black	827841	Paper Cartridge	10.2 fl. oz.

COVERAGE

A 10.2 fl. oz. (302 mL) cartridge will extrude approx. 31.3 ft. (9.5 m) of a 1/4" (6 mm) bead.
A 10.2 fl. oz. (302 mL) cartridge will extrude approx. 13.9 ft. (4.2 m) of a 3/8" (9.5 mm) bead.

DIRECTIONS

Tools Typically Required:

Utility knife and caulking gun.

Safety Precautions:

Not recommended for use inside occupied structures. Wear gloves. 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. Tooling of the sealant is not necessary or recommended. Sealant is paintable with a latex or oil-based paint after full cure.

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.

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

Typical Cured Performance Properties			
<u>Color:</u>	Various colors	<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
<u>Hardness, Shore A:</u>	45	<u>Water Resistant:</u>	Yes
<u>Elongation:</u>	1250%	<u>Specifications:</u>	<ul style="list-style-type: none"> ▪ Federal Spec. TT-S-001657, Type I ▪ Federal Spec. TT-S-00230C Meets the performance characteristics of: <ul style="list-style-type: none"> ▪ ASTM C920: Type S, Grade NS, 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		