



TECHNICAL DATA SHEET

OSI
Professional Grade
Adhesives & Sealants

VP-275™
Multi-Purpose Silicone Sealant

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DESCRIPTION

OSI® VP-275™ is a one-part, low modulus, neutral curing silicone sealant. The high performance characteristics of VP-275™ provide for excellent primerless adhesion to most porous and non-porous building materials. The product cures at room temperature by reaction with moisture in the air to produce a permanently flexible seal that is weatherproof and waterproof. VP-275™ offers superior resistance to oxidation, UV light, temperature variations and is non-corrosive to most metals. The low modulus properties of the sealant allow it to withstand extension/compression movement capability up to ± 25% of the original joint width. VP-275™ is solvent-free and non-toxic. It can be easily applied at temperatures from 0°F (-18°C) to 110°F (43°C).

RECOMMENDED FOR:

VP-275™ Silicone was specifically formulated for use on vinyl products in the siding and window industry. It is well suited for use in new construction, remodeling and remedial jobs, renovation work and service/maintenance projects that require sealants. VP-275™ bonds to treated or untreated wood, steel, aluminum, brass and some plastics; glass, ceramic tiles, brick, concrete, mortar and most other masonry materials. VP-275™ is highly recommended for expansion joints, metal curtain walls and modular component applications; glazing of glass and perimeter sealing including weatherproof sealing around vinyl, metal or wood windows and siding in residential construction.

NOT RECOMMENDED FOR:

- Joints subject to continuous water immersion (i.e. swimming pools, boats, etc)
- Horizontal joints or traffic bearing joints where abrasion resistance is required (i.e. walkways, driveways, runways, etc)
- Applications in totally confined or air-free spaces
- Sealing green or vulcanized rubber
- Sealing marble or granite surfaces
- Use with potable water systems
- Direct contact on the reflective coatings on mirrors
- Applications requiring painting (Paint will not adhere to silicone)

FEATURES & BENEFITS:

Feature	Benefits
100% Silicone rubber.....	Solvent-free, non-toxic and neutral curing
Withstands moderate expansion-contraction cycles.....	Permanently flexible; Will not crack or split even over temperature extremes
Durable and Water-resistant.....	Long-lasting, professional finish; Great for outdoor applications
Available in a variety of colors.....	Manufactured to match most siding colors

COVERAGE

A 10.2 fl. oz. (302 mL) cartridge will extrude approx. 31.3 ft. (9.5 m) of a ¼" (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.

Item #	Size	Packaging	Color
1132271	10.2 Oz.	Plastic Cartridge	Clear
1130933	10.2 Oz.	Plastic Cartridge	White
1130935	10.2 Oz.	Plastic Cartridge	Black
1130936	10.2 Oz.	Plastic Cartridge	Terabronze
1130628	10.2 Oz.	Plastic Cartridge	Briarwood
1130938	10.2 Oz.	Plastic Cartridge	Tan
1131012	10.2 Oz.	Plastic Cartridge	Almond

DIRECTIONS

Tools Typically Required:

Utility knife and caulking gun.

Safety Precautions:

Wear gloves. Wash hands after use. Use with adequate ventilation.

Preparation:

Apply sealant between 0°F (-18°C) and 110°F (43°C). All surfaces must be clean, dry and free of old caulk, grease, dust and other contaminants. Insert cartridge into caulking gun and cut the tip off the cartridge at a 45° angle to desired bead size (3/8" is recommended). For a neat sealant line, tape both sides of the joint using masking tape.

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. Sealant should be tooled within 20 minutes after application. Do not use soapy water or oil as a tooling aid. Immediately remove any masking tape after tooling sealant.

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 at temperatures not greater than 80°F (27°C). Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

PRECAUTIONS

WARNING! Contains oxime silanes. Uncured sealant may cause eye and skin irritation. Methyl ethyl ketoxime, which irritates eyes and respiratory tract, is released during curing. Do not get in eyes or on skin or clothing. Do not swallow. **FIRST AID:** In case of skin contact wipe off and wash with soap and water. Contact a physician if irritation develops or persists. In case of eye contact flush with water for 15 minutes, call a physician immediately. If swallowed, do not induce vomiting; Contact a physician or Poison Control Center.

If this product is used in an OSHA regulated workplace consult the MSDS available from your distributor before use.

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 0°F (-18°C) and 110°F (43°C)
<u>Appearance:</u>	Lump-free paste	<u>Skin Time:</u>	Approximately 10 minutes
<u>Base:</u>	One-part, neutral curing, silicone rubber	<u>Tack-Free Time:</u>	Approximately 20 minutes
<u>Specific Gravity:</u>	1.35	<u>Cure Time:</u>	7 to 14 days @ 75°F (167°C) (Cure time is dependent upon temperature, humidity and depth of sealant applied.)
<u>Flash Point:</u>	> 212°F (100°C)	<u>Sag at 120°F:</u>	0.03 inches
		<u>Extrusion Force:</u>	
		At 120°F (49°C)	23 lb
		At 73°F (23°C)	32 lb
		At 41°F (5°C)	40 lb
		At 5°F (-15°C)	52 lb

OSI® VP-275™
Multi-Purpose Silicone Sealant

% Solids by Weight: 94.9%

VOC Content: < 30 g/L (2% by weight)

Shelf Life: 26 months from date of manufacture (unopened)

Lot Code Explanation: YY / DDD
YY = Last two digits of Year of Manufacture
DDD = Day of Manufacture based on 365 days in one year

(Lot code is printed on the top of cartridge body)

For example: 09061
= 61st day of 2009
= March 2, 2009

Typical Cured Performance Properties

<u>Color:</u>	Various colors	<u>Service Temperature:</u>	-58°F (-51°C) to 302°F (150°C)
<u>Shrinkage:</u>	Nil	<u>Paintable:</u>	No
<u>Hardness, Shore A:</u>	29 ± 1	<u>Water Resistant:</u>	Yes, when fully cured.
<u>Elongation at Break:</u>		<u>Specifications:</u>	<ul style="list-style-type: none">▪ Federal Spec. TT-S-00230C (COM-NBS) Type II, Class A▪ Federal Spec. TT-S-001543A (COM-NBS) Class A▪ ASTM C920: NS, NT
Initial (5 Day RT Cure)	324 ± 20 %		
Full Cure (30 days @ 50°C)	325 ± 63 %		
<u>Tensile Strength at Peak:</u>			
Initial (5 Day RT Cure)	179 ± 11 psi		
Full Cure (30 days @ 50°C)	213 ± 20 psi		
<u>% Recovery:</u>			
Initial (5 Day RT Cure)	100%		
Full Cure (30 days @ 50°C)	99%		
<u>Movement Capability:</u>	± 25%		
<u>180° Peel Adhesion:</u>			
Aluminum Flashing (Coated)	6.8 ± 1.3 pli		
FRP (Glossy Side)	8.7 ± 1.7 pli		
OSB	7.5 ± 1.9 pli		
Aztec Trim	7.9 ± 0.6 pli		