



# TECHNICAL DATA SHEET

## MULTI-PURPOSE SILICONE SEALANT

# VP275

## LOW MODULUS ± 50% JOINT MOVEMENT



**Description:** OSI VP275 Multi-Purpose Silicone Sealant is a one-part, low modulus, neutral curing silicone sealant. The high performance characteristics of OSI VP275 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. OSI VP275 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 ± 50% of the original joint width. OSI VP275 is solvent-free and non-toxic. It can be easily applied at temperatures from 0°F (-18°C) to 110°F (43°C).

### Available As:

Item #	Size	Color
1494048	10 fl oz (295 ml)	White
1493958	10 fl oz (295 ml)	Clear

### Features & Benefits:

- Low Modulus, 100% Silicone Sealant
- Permanently Flexible, ± 50% Joint Movement
- Water Resistant & Weatherproof
- For Porous & Non-Porous Materials

### Recommended For:

OSI VP275 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. OSI VP275 bonds to treated or untreated wood, steel, aluminum, brass and some plastics; glass, ceramic tiles, brick, concrete, mortar and most other masonry materials. OSI VP275 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.

### For Best Results:

Not recommended for the following applications:

- 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, 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)

### Coverage:

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

- A 1/4" (6 mm) bead extrudes approximately 31 ft. (9.5 m)
- A 3/8" (9.5 mm) bead extrudes approximately 14 ft. (4.2 m)



# TECHNICAL DATA SHEET

## Typical Uncured Physical Properties:

Color:	Various	
Appearance:	Lump-free paste	
Base:	One-part, neutral curing, silicone rubber	
Odor:	Mild	
Specific Gravity:	1.04	
Flashpoint:	>200°F (93°C)	
VOC Content:	2.6% by weight	CARB
	27 g/l	SCAQMD rule 1168
Shelf Life:	24 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>YYDDD</b>	
Stamped 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 For example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply between 0°F (-18°C) to 110°F (43°C)	
Skin Time:	5-10 minutes*	At 73°F and 50% relative humidity
Tack-Free Time:	< 60 minutes*	
Cure Time:	7-14 days*	
	*Time is dependent on temperature, humidity, porosity of substrate and depth of sealant applied	
Sag or Slump:	0.05 inches	ASTM D2202 at 73°F

## Typical Cured Performance Properties:

Color:	Various	
Cured Form:	Non-flammable solid	
Service Temperature:	-5°F (-21°C) to 170°F (77°C)	
Water Resistant:	Yes, when fully cured	
Paintable:	No, silicones do not accept paint	
Shrinkage:	Maximum 6%	
Hardness:	17-35	Shore A
Elongation at Break:	ASTM D412 Die C	
Initial (5 day cure at 73°C):	324 ± 20 %	
Full Cure (30 days at 122°F):	325 ± 63 %	
Tensile Strength at Break:	ASTM D412 Die C	
Initial (5 day cure at 73°C):	179 ± 11 psi	
Full Cure (30 days at 122°F):	213 ± 20 psi	
% Recovery:	ASTM D412 Die C	
Initial (5 day cure at 73°C):	100%	
Full Cure (30 days at 122°F):	99%	
Joint Movement Capability:	± 50%	After 14 days
180° Peel Adhesion:	ASTM C794	
Aluminum Flashing (Coated):	6.8 ± 1.3 pli	
FRP (Glossy Side):	8.7 ± 1.7 pli	
OSB:	7.5 ± 1.9 pli	
PVC Trim:	7.9 ± 0.6 pli	



# TECHNICAL DATA SHEET

**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 5-10 minutes of 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 & 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.

**Label Precautions:**

**WARNING! UNCURED SEALANT IRRITATES EYES, SKIN AND RESPIRATORY TRACT. PROLONGED OR REPEATED CONTACT WITH SKIN MAY CAUSE ALLERGIC REACTION.**

**WARNING!** Contains oxime silanes. Contact with uncured sealant causes eye, skin and respiratory irritation. Prolonged or repeated skin contact with uncured sealant may cause allergic reaction. Use with adequate ventilation. Methyl ethyl ketoxime, which irritates eyes and respiratory tract, is released during curing. Do not get in eyes or on skin or clothing. Remove contact lenses before using sealant. Wash hands after using. Do not swallow. **FIRST AID:** In case of skin contact wipe off and wash with soap and water. In case of eye contact flush with water for 15 minutes, call a physician immediately. Call a physician if symptoms develop or persist. If swallowed, do not induce vomiting; contact physician or Poison Control Center. **KEEP OUT OF THE REACH OF CHILDREN.**

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

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

**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)



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