



# TECHNICAL DATA SHEET



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## DESCRIPTION

OSI® TeQ::Seal™ Elastomeric Window Installation Flange Sealant is a single component high quality sealant based on modified polyurethane polymers. This modified formula was designed for the WINTeQ™ Window Installation System for easy application in all weather conditions. It offers fast cure when exposed to atmospheric humidity. TeQ::Seal™ is permanently flexible, weather resistant and paintable. It is compatible with all components in the WINTeQ™ Window Installation System. TeQ::Seal™ goes on smoothly and has easy cut off without stringing. TeQ::Seal™ adheres to wood, metal, vinyl, glass, aluminum and most common building substrates. This low VOC Formula meets State and Federal VOC regulations.

## RECOMMENDED USES:

TeQ::Seal™ is ideal for back caulking vinyl or aluminum window nailing flanges, for sealing between nailing flanges and weather resist barrier and exterior sheathing.

## NOT RECOMMENDED FOR:

- Not intended to replace mechanical fasteners for attaching windows
- Underwater applications or permanent water immersion
- Applications requiring temperature resistance greater than 194°F (90°C)

## FEATURES & BENEFITS:

Feature	Benefits
Ultra low VOC content.....	Qualifies for LEED® points; Meets stringent State and Federal VOC regulations;
Third party Certification.....	GreenGuard® Certified for Children and Schools
Long lasting quality.....	Will not harden, crack, separate or yellow over time
Easy to Install.....	Can be installed in any weather condition; Will adhere to wet surfaces; Compatible with asphalt and butyl flexible flashing;
Part of a complete Window Installation System.....	WINTeQ™ is the first complete & fully compatible window installation system

Item #	Color	Packaging	Size
1003802	White	Plastic Cartridge	10 Fl. Oz. ( 295 mL)

## COVERAGE

A 10 fl. oz. (295 mL) cartridge will extrude approximately 31 ft (9.5 m) of a 1/4" (6 mm) diameter bead.



## DIRECTIONS

### Tools Typically Required:

Utility knife and caulking gun.

### Safety Precautions:

Wear gloves and wash hands after use.

### Preparation:

The temperature of the product, the surfaces and the working area must be above 40°F (5°C). For best performance, apply sealant at 70°F (21°C). Ensure surfaces to be sealed are clean, dry, structurally sound and free of dust, grease, oil, and other foreign contaminants. Cut off tip of cartridge above screw threads. Screw on nozzle, remove the cap and cut the tip off the cartridge nozzle just above the threads to desired bead size (3/8" recommended).

### Application:

The joint width must be designed to suit the movement capability of the sealant. In general, the joint width must be greater than 10 mm (0.39") and less than 35 mm (1.37"). A joint width to depth ratio of approximately 1:0.5 must be maintained. Using a caulking gun, extrude sealant forcing into joint. To ensure proper adhesion, immediately tool the sealant. Wipe nozzle tip and recap cartridge immediately after use.

### Clean-up:

Clean tools and uncured product residue immediately with warm, soapy water. Cured sealant may be carefully cut away with a sharp-edged tool.

## STORAGE AND DISPOSAL

For best performance, protect product from excessive heat or cold. For maximum shelf life store at 75°F (24°C). Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

## LABEL PRECAUTIONS

**WARNING!** Contains trimethoxyvinylsilane (2768-02-7) and bis (2,2,6,6-tetramethyl-4-piperidyl) decanedioate (52829-07-9). Harmful if swallowed. Vapor harmful. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache or nausea. Use in a well-ventilated area. **MAY CAUSE SKIN & EYE IRRITATION.** Avoid eye and skin contact. Prolonged or repeated skin contact may cause dermatitis. Wash hands after using. Wear gloves and safety glasses when applying product. **FIRST AID:** For eye contact, flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wash with soap and water. If affected by inhalation, remove to fresh air and get medical attention. If ingested, do not induce vomiting. Call a physician or Poison Control Center immediately. For professional use only. internally. **DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN**

Refer to the 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>	White	<u>Application Temperature:</u>	40°F (5°C) to 120°F (50°C)
<u>Appearance:</u>	Non-slumping paste	<u>Tack-Free Time:</u>	Approx. 20 minutes
<u>Base:</u>	Modified Polyurethane	<u>Cure Time:</u>	For a 2.5 mm bead depth: 24 hours (73°F (23°C) and 50% Relative Humidity)
<u>% Solids by Weight:</u>	100%	<u>Sag or Slump:</u>	Nil
<u>VOC Content:</u>	< 0.5% by weight (< 5 g/L)		
<u>Shelf Life:</u>	18 months from date of manufacture (unopened)		
<u>Lot Code Explanation:</u>	DD MM YYYY		
(Lot code is stamped on top of cartridge body near the nozzle)	For example: 05 03 2008 = March 5, 2008		

## Typical Cured Performance Properties

<u>Color:</u>	White
<u>Service Temperature:</u>	-40°F (-40°C) to 176°F (80°C)
<u>Paintable:</u>	Yes
<u>Elongation at Rupture Point:</u> (ISO 8339-A)	250%
<u>Elastic Recovery:</u> (ISO 7389-B)	85%
<u>Shrinkage:</u> (ISO 10563)	3%
<u>Movement Capability:</u>	±25%
<u>Tensile Strength:</u> (DIN 53 504)	1 N/mm <sup>2</sup> (145 psi)
<u>Shore A Hardness:</u> (DIN 53 505)	40
<u>Specifications:</u>	Tested in Accordance with: <ul style="list-style-type: none"><li>▪ AAMA 504 Voluntary Laboratory Test Method to qualify fenestration installation procedures</li><li>▪ AAMA 800 Voluntary Specifications and Test Methods for Sealants. TeQ::Seal™ met the performance requirements of the following sections:<ul style="list-style-type: none"><li>▪ Section 1.1, Back Bedding Glazing Compounds, 802.3 Types I and II</li><li>▪ Section 1.1, Back Bedding Glazing Compounds, 805.2 Group C</li><li>▪ Section 1.4, Exterior Perimeter Sealant Compound, 808.3</li></ul></li><li>▪ Meets ASTM C920, Type S, Grade NS, Class 25, Use NT</li><li>▪ GreenGuard® Certified for Children and Schools</li><li>▪ **Conforms to ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights, Sec. 5.18 and Annex A4 and Fig. A4.1 - Sealants</li></ul>

\*\*The WINTeQ™ System uses similar practices and principle as ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights. ASTM E2112 is intended to provide technical guidance to organizations that are developing training programs for installers of fenestration units. The majority of fenestration units and materials used to install them are certified as meeting specified performance characteristics. The WINTeQ™ System products have been tested in accordance with the relevant specifications required for performance under both ASTM and AAMA guidelines. The specifications for each product are listed on each components individual technical data sheet.