



# TECHNICAL DATA SHEET



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## DESCRIPTION

OSI® H2U Acrylic Urethane Sealant is a high performance sealant designed for the siding and window industries. This superior acrylic urethane formula has better adhesion, flexibility and durability than most sealants, and cleans up easily with soap and water. This water based, low gassing formula is ideal for use indoors and provides the durability, flexibility and adhesive strength needed for outdoor use. OSI® H2U dries to a glossy sheen and when fully cured it is paintable and will resist surface mold and mildew.

## RECOMMENDED USES:

- Developed primarily for sealing around exterior window and door frames, sill plates, electrical and plumbing penetrations and other areas where water and air can infiltrate.
- Ideal for sealing gaps and cracks found on the interior of the home. Works well along baseboards, floors, wall to floor joints, around window and door frames, ceiling to wall joints and any other crack or gaps found in and around the home.
- Works well on vinyl, aluminum and fiber cement siding, brick, concrete, metal and most common building materials.
- Adheres to all types of wood, drywall, plaster, plastic moldings, tile and more.

## NOT RECOMMENDED FOR:

- Underwater applications or permanent water immersion
- Applications requiring temperature resistance greater than 170°F (77°C)
- Exterior use when rain or freezing conditions are expected within 24 hours
- Butt joint applications
- Application on unfinished or unprimed fiber cement (Fiber cement must be primed or have a factory finish before application)
- Application on mirrors

## FEATURES & BENEFITS:

Feature	Benefits
Ultra low VOC content.....	Qualifies for LEED® points; Meets stringent State and Federal VOC regulations
Water-based sealant.....	Non-flammable, easy soap and water clean-up, low odor for interior projects and environmentally friendly
Permanently flexible.....	Will not harden, crack or separate over time
Mold and Mildew Resistant.....	Ideal for outdoor projects or for high humidity applications

Item #	Color	Packaging	Size
Various	Various	Plastic Cartridges	10 Fl. Oz. (295 mL)

## COVERAGE

A 10 fl. oz. (295 mL) cartridge will extrude approx. 30.6 ft. (9.3 m) of a ¼" (6 mm) bead.  
A 10 fl. oz. (295 mL) cartridge will extrude approx. 13.6 ft. (4.1 m) of a 3/8" (9.5 mm) 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 41°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. Concrete or block walls must be well cured, dry and free of any release agents. Cut off tip of cartridge at a 45° angle to desired bead size (3/8" recommended).

### Application:

Maximum joint size should not exceed 5/8" (15.9 mm) x 1/2" (12.7 mm). Using caulking gun, force sealant into joint. Avoid outdoor use when rain is expected within 24 hours. Tool if necessary with a wet finger within 5 minutes after application. Sealant skins over in approximately 30 minutes depending on humidity and temperature. Note: Clear H2U extrudes white and will turn clear as it dries.

### 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

DAMAGED BY FREEZING. Store in a cool, dry location at room temperature. 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

**CAUTION!** Contains Ethylene Glycol. Do not take internally. Keep from freezing.

**KEEP OUT OF REACH OF CHILDREN**

**FIRST AID:** In case of eye contact, flush immediately with plenty of clean water for at least 15 minutes. Cleanse skin thoroughly after contact. If swallowed, do not induce vomiting. Call a physician immediately. Overexposure to vapors is irritating to eyes and respiratory tract. May cause headaches and dizziness and is anesthetic. If overcome by vapors, remove person to fresh air. Contact physician immediately.

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>	Various colors Note: Clear H2U will extrude white and turn clear as it dries.	<u>Application Temperature:</u>	Above 5°C (41°F)
<u>Appearance:</u>	Non-slumping paste	<u>Tooling / Open Time:</u>	5 minutes
<u>Base:</u>	Acrylic / Urethane Latex	<u>Tack-Free Time:</u>	30 to 60 minutes
<u>Odor:</u>	Mild acrylic odor	<u>Cure Time:</u>	1 to 14 days Cure time depends upon temperature, humidity, porosity of substrate and thickness of sealant applied.
<u>VOC Content:</u>	< 0.5% by weight (< 5 g/L)	<u>Sag or Slump:</u> (ASTM D 2202)	0.1" maximum
<u>Shelf Life:</u>	24 months from date of manufacture (unopened)		

<u>Lot Code Explanation:</u>	YYDDD	<u>Extrusion</u>	
(Lot code is stamped on body of cartridge on bottom near plunger)	YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year	(5/16" opening @ 5 in / min): At 120°F (49°C) At 73°F (23°C) At 41°F (5°C)	16 lb 35 lb 56 lb

For example: 09061  
 = 61<sup>st</sup> day of 2009  
 = March 2, 2009

<b>Typical Cured Performance Properties</b>
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<u>Color:</u>	Various Colors
<u>Cured Form:</u>	Non-flammable solid
<u>Service Temperature:</u>	-5°F (-21°C) to 170°F (77°C)
<u>Paintable:</u>	Yes, once fully cured.
<u>Shore A Hardness</u>	Approx. 24
<u>Tensile Strength (ASTM D 412):</u>	
5 days cure @ 73°F	72 ± 33 psi
1 day cure @ 73°F + 30 days @ 122°F	302 ± 5 psi
<u>Elongation at Break (ASTM D 412):</u>	
5 days cure @ 73°F	1106 ± 317%
1 day cure @ 73°F + 30 days @ 122°F	468 ± 38%
<u>180° Peel Adhesion – Dry</u> (ASTM C 794 – 21 day cure – no water immersion)	
Vinyl Siding	19 ± 2.1 pli
Aluminum Flashing (coated)	18.6 ± 5.5 pli
Fiber cement - Primed (Hardie Board)	6.2 ± 2.1 pli
Pine	9.3 ± 2.7 pli
OSB (glossy side)	9.6 ± 1.1 pli
Azek™ PVC Trim	5.3 ± 0.7 pli
<u>Movement Capability:</u>	± 25%

- Specifications:
- Meets performance characteristics of:
    - TT-S-00230C, Type II, Class A
    - ASTM C-920, Grade NS, Class 25
  - Qualifies for LEED® points
  - Complies to the following VOC regulations:
    - SCAQMD Rule 1168 VOC
    - CARB
    - BAAQMD