



# TECHNICAL DATA SHEET

Revision: March 16, 2018  
Supersedes: July 31, 2014  
Ref. #: 253795, 253797

## WINDOW, DOOR & SIDING

# H2U

## HIGH PERFORMANCE

**Description:** OSI H2U Window, Door, Siding and Trim 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.

### Available As:

| Item #  | Size              | Color |
|---------|-------------------|-------|
| 1256934 | 10 fl oz (295 ml) | White |
| 1256965 | 10 fl oz (295 ml) | Clear |



### Features & Benefits:

- Superior Durability
- Permanently Flexible
- Indoor / Outdoor Capabilities
- Easy Water Clean-Up

### Recommended For:

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. This product is 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, all types of wood, drywall, plaster, plastic moldings, tile and most common building materials.

### Limitations:

Not recommended for the following applications:

- 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

### 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)



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## Typical Uncured Physical Properties:

|  |  |  |
|--|--|--|
| Color:   | White and Clear  | Note: Clear extrudes white but turns clear as it dries |
| Appearance:                                    | Non-slumping paste   |  |
| Base:  | Acrylic/Urethane Latex   |  |
| Odor:  | Mild acrylic odor  |  |
| Specific Gravity:                              | 1.267  |  |
| Viscosity:                                     | 200,000 to 300,000 cps   |  |
| % Solids by Weight:                            | 70%  |  |
| VOC Content:                                   | 0.3% by weight   | CARB   |
|  | 42 g/l   | SCAQMD rule 1168                                       |
| Shelf Life:                                    | 24 months from date of manufacture (unopened)  |  |
| Lot Code Explanation:                          | <b>YYDDD</b>   |  |
| Stamped on body side of cartridge near plunger | <b>YY</b> = Last two digits of year of manufacture<br><b>DDD</b> = Day of manufacture based on 365 days in a year<br>For example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014 |  |

## Typical Application Properties:

|                          |   |                                   |
|--------------------------|---|-----------------------------------|
| Application Temperature: | Above 40°F (5°C)  |                                   |
| Tooling / Open Time:     | 5-10 minutes*   | At 73°F and 50% relative humidity |
| Tack-Free Time:          | 30-60 minutes*  |                                   |
| Cure Time:               | 1-14 days*  |                                   |
|                          | *Time is dependent on temperature, humidity, porosity of substrate and depth of sealant applied |                                   |
| Extrusion Force:         | 5/16" opening at 5 in/min   |                                   |
| At 73°F:                 | 35 lbs.   |                                   |
| At 41°F:                 | 56 lbs.   |                                   |
| Sag or Slump:            | 0.1 inches maximum  | ASTM D2202, at 120°F              |

## Typical Cured Performance Properties:

|                               |                              |               |
|-------------------------------|------------------------------|---------------|
| Color:                        | White or Clear only          |               |
| Cured Form:                   | Non-flammable solid          |               |
| Service Temperature:          | -5°F (-21°C) to 170°F (77°C) |               |
| Paintable:                    | Yes, once fully cured        |               |
| Shrinkage:                    | Approx. 30%                  |               |
| Hardness:                     | 24 ± 1                       | Shore A       |
| Elongation at Break:          | ASTM D412 Die C              |               |
| Initial - 5-day cure at 73°F: | 1106 ± 317%                  |               |
| Full Cure - 30 days at 122°F: | 468 ± 38%                    |               |
| Tensile Strength at Break:    | ASTM D412 Die C              |               |
| Initial - 5-day cure at 73°F: | 72 ± 33 psi                  |               |
| Full Cure - 30 days at 122°F: | 302 ± 5 psi                  |               |
| % Recovery:                   | ASTM D412 Die C              |               |
| Initial - 5-day cure at 73°F: | 42 ± 6%                      |               |
| Full Cure - 30 days at 122°F: | 83%                          |               |
| Joint Movement Capability:    | ± 25%                        | After 14 days |
| 180° Peel Adhesion:           | ASTM D794                    |               |
| Vinyl Siding                  | 19 ± 2.1 pli                 |               |
| Aluminum Flashing (coated)    | 18.6 ± 5.5 pli               |               |
| Fiber cement - Primed         | 6.2 ± 2.1 pli                |               |
| Pine                          | 9.3 ± 2.7 pli                |               |



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## Typical Cured Performance Properties:

|                            |  |           |
|----------------------------|--|-----------|
| 180° Peel Adhesion:        |  | ASTM D794 |
| OSB (glossy side)          | 9.6 ± 1.1 pli  |           |
| PVC Trim                   | 5.3 ± 0.7 pli  |           |
| Applicable Specifications: | Meets the performance requirements of the following:   |           |
|                            | <ul style="list-style-type: none"><li>• ASTM C920 Type S, Grade NS, Class 25</li><li>• Fed. Spec TT-00230C Type II, Class A</li><li>• GreenGuard® Certified</li><li>• Qualifies for LEED® points</li></ul> |           |

## Directions:

### Tools Typically Required:

Utility knife, caulking gun and tool to puncture cartridge seal. For best application results, OSI® recommends the use of a high-quality caulking gun such as the Albion® B12 Cartridge 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 & 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 as non-hazardous trash.

## Label Precautions:

**CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION.**

**CAUTION!** Contains ethylene glycol and mineral oil. Avoid contact with eyes and skin. Use with adequate ventilation. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes. For skin contact, wash with soap and water. If affected by inhalation, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN.**



**Warning: Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**

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.

## Disclaimer:

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OSI works side by side with residential builders, contractors and remodeling professionals who use our products every day 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.

For Technical Assistance call : 1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET

[www.ositough.com](http://www.ositough.com)



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