



## AU-1 CLEAR WINDOW & DOOR

### Acrylic Urethane Elastomeric Sealant

#### Product Description:

**AU-1 WINDOW & DOOR CLEAR** is a 1 component, high performance, gun-grade, Clear Urethane Modified Acrylic Sealant. Premium technology reduces dirt pickup, eliminates yellowing and shiners. Internally plasticized resin requires no mixing or priming to bond to most materials, including concrete, metal and masonry.

**AU-1 CLEAR** has superior adhesion, durability, 50% total joint movement and 800% elongation. It forms an airtight, water resistant seal offering exceptional protection from environmental conditions. Once cured, the bead is mildew resistant. **AU-1 CLEAR** is safe for UV exposure and will not discolor.

#### Performance Features:

- Exceeds ASTM C-920, Grade NS, Class 25. Use M, G, A, O & NT
- Exceeds ASTM C-834, Type OP, Grade -18°C
- Exceeds Fed. Spec TTS-00230C, Type II, Class A
- Up to 1/2" in properly designed joints
- 800% Elongation
- Superior Adhesion
- Internally Plasticized
- Exceptional Adhesion and Durability
- Cured UV & Mildew Resistant Bead
- Interior / Exterior
- Vacuum Filled Tubes
- Lifetime Warranty

#### Suggested Applications:

Windows  
Doors  
Siding

#### Suggested Substrates:

Wood	Ceramic/Porcelain	Tile
Cement Board	Galvanized	
Aluminum	Glass	Vinyl Siding

#### Surface Preparation:

Surfaces to be caulked must be dry and free of all dirt, dust, oil, mildew, loose paint, old caulk or other contaminants. Bare surfaces should be primed before caulking. Only apply when sealant, surface, and air temperature are above 40°F and rising. Do not apply on surfaces that exceed 140°F, or when rain is expected.

#### Product Specifications

<b>Vehicle:</b>	Proprietary Urethane/Modified Acrylic Blend (Siliconized)
<b>VOC:</b>	Non-chemically curing sealant. VOC (less exempt solvents) is <1.5%
<b>SCAQMD Rule 1168</b>	VOC 29 g/L
<b>Solids:</b>	Approximately 70%
<b>Weight per Gallon:</b>	9.3 ± 0.5
<b>Service Temp:</b>	-40°F to 180°F
<b>Temp Application Range:</b>	40°F and rising. Air temp no hotter than 95° and substrate not hotter than 140°
<b>Freeze Thaw Stability:</b>	Passes 5 Cycles @ 0°F (1 cycle = 16hrs. @ 0°F, 8hrs at 75°F)
<b>Dynamic Joint Movement:</b>	Approximately ± 25%
<b>Flash Point:</b>	Not Applicable
<b>Consistency:</b>	15 to 55 G/S @ 75°F (SEMCO gun at 50psi)
<b>Applications:</b>	Interior / Exterior
<b>Life Expectancy:</b>	Lifetime performance
<b>Shelf Life:</b>	24 months when stored at 50°F to 80°F
<b>Coverage: 10.1 fl oz:</b>	55 linear ft. at a 3/16" bead
<b>Odor:</b>	Mild Sweet Acrylic
<b>Tooling Time:</b>	15 Minutes
<b>Tack Free Time:</b>	60 Minutes
<b>Paint Over Time:</b>	4-6 Hours
<b>Full Cure:</b>	7-14 Days

<b>Packaging:</b>	10.1 fl oz.	<b>UPC Code:</b>
<b>Item Number:</b>		
Clear:	TS-00447	843034004473

**AU-1 CLEAR WINDOW & DOOR – (cont.)****Application:**

1. Cut nozzle at a 45° angle. Cured bead should be between 1/8" and 1/2" wide. Use a foam backer rod for joints that exceed 1/2" in depth. 2. Smooth bead with a moistened cloth. 3. Clean up uncured material and tools with soap and water. 4. Allow 4 to 6 hours before painting. Coverage: 55 linear feet for a 3/16" bead. NOTES: APPLIES WHITE AND DRIES CLEAR. NOT INTENDED FOR AREAS THAT WILL BE SUBMERGED IN WATER. KEEP FROM FREEZING. NOT FOR FOOD CONTACT SURFACES.

**Clean Up:**

Immediately after use, clean uncured material and tools with soap and water. Remove cured sealant by cutting with a sharp-edged tool.

**CERTIFICATION & TESTING**

Property	AU-1 W&D CLEAR
Type	Acrylic Urethane
ASTM Claims	Class 25
<b>Tensile Properties</b>	Cured Sample
Property	Value
Maximum Stress (psi)	152 ± 5
Elongation to Break	900% ± 44
Elongation Max Stress	800% ± 10
<b>Performance Test</b>	Result
ASTM-C920 CLASS 25	Exceeds
TTS-00230	Pass

\* NOTES: Dry adhesion after fully curing sealant, as required by ASTM test protocol.

Property	AU-1 W&D CLEAR
<b>Dry Peel Adhesion</b>	*ASTM C-794 (pli)
Aluminum	32-42
Glass	39-45
Cement	32
<b>Wet Peel Adhesion</b>	*ASTM C-794 (pli)
Aluminum	20-28
Glass	25-2
Cement	14-24
Channel Slump ASTM C-639	0 mm
Tack-Free Time ASTM C-679	60 mins
Shore A Hardness	15 ± 2
<b>Formulation Characteristics</b>	
Extrusion Rate	15 g/sec
pH	< 8.3
ASTM C-793	Pass
After 250 hours WOM -15° F	Pass
<b>± 25% Joint Movement</b>	ASTM C-719
Aluminum	Pass
Glass	Pass
Cement	Pass
<b>AAMA Testing</b>	Result
AAMA 808.3	Complies with physical requirements

## AU-1 CLEAR WINDOW & DOOR – (cont.)

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**WARNING!** IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT. Harmful if swallowed, inhaled or absorbed through the skin. May cause allergic skin reactions and/or central nervous system depression. Adverse reproduction effects have been reported in animals. May cause adverse kidney effects. Avoid contact with eyes, skin and clothing. Use in well ventilated area. Wear eye, skin, and respiratory protection. Eye contact: Immediately flush with water for 15 minutes and get medical attention immediately. If swallowed: Do not induce vomiting. Give large quantities of water and get medical attention. Never give anything by mouth to an unconscious person. For health information, refer to Material Safety Data Sheet or call Chemtrec at 800-424-9300. **KEEP OUT OF REACH OF CHILDREN.**

**⚠WARNING!** Cancer and Reproductive Harm – Go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) for additional information

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### First Aid:

In case of skin contact, wash off quickly with plenty of soap and water and remove contaminated clothing. For eye contact, flush eyes immediately with large quantities of water for at least 15 minutes. If swallowed, obtain medical treatment immediately. **DO NOT INDUCE VOMITING.** If inhalation causes physical discomfort, move to fresh air. If discomfort persists or any breathing difficulty occurs, seek medical help.

Material Safety Data Sheets (SDS) available upon request via [towersealants.com](http://towersealants.com) or by calling 866-897-7568

**Product Replacement Policy:** After proper storage and application, if this product cracks, peels or separates, manufacturer will replace the product if purchaser returns proof of purchase to manufacturer. Manufacturer shall not be held liable for damages in excess of the purchase price. This is the sole and exclusive remedy and liability for defects or failure of this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESSED OR IMPLIED; INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.