

## Tower® Residential Sealant

Premium-Grade, formulated sealant manufactured with proprietary polymer technology designed for use with the Tyvek® Weatherization Systems.

### DESCRIPTION

**Tower® Residential Sealant** is a specially formulated sealant manufactured with proprietary polymer technology designed for use with the Tyvek® Weatherization Systems. Has superior adhesion and durability with greater than 800% elongation. Easy to apply, this sealant forms a flexible, durable, and watertight seal offering exceptional protection from environmental conditions. This proprietary technology reduces dirt pickup, eliminates yellowing and cleans easily with soap and water. It can be used on a wide variety of interior and exterior surfaces. Once cured, is mildew resistant and exceeds the following requirements: Fed. Spec. TTS-00230C, Type II, Class A; ASTM C-920, Grade NS, Class 25, and ASTM C-834 type OP, Grade-18°C; complies with AAMA 808.3. Tower Residential Sealant is an all-purpose residential sealant recommended for use sealing around House Wraps, Flashings, Doors, Windows, Siding, Penetrations, Stucco, EIFS, Hardboard Siding, Crown Molding, Jambs, and Trim. Substrates include, but are not limited to: Masonry, Brick, Concrete, Wood, Metal, Marble, Glass, Porcelain, Vinyl and Ceramic Tile.

### PRODUCT FEATURES

- + For use with all house wraps
- + Ready to use, no mixing, reduces prep time
- + No primer required for most substrates reducing application time
- + Easy to gun and tool, for quicker application and neater joints
- + Seals joints up to 2" with proper joint design
- + Exceptional resistance to aging and weathering for long term durability
- + Available in sausage packs
- + Can be painted.
- + Superior adhesion to construction materials over long periods of time
- + Meets VOC requirements for all 50 states
- + Joint movement capacity  $\pm 25\%$  with 800% elongation providing excellent flexibility for moving joints.

### APPLICATIONS

Tyvek® Weatherization Systems	Window frames;
Interior and exterior	aluminum, wood and
Vertical and horizontal joints	vinyl
Expansion and control joints	Stucco
Concrete panel joints	Flashing
Exterior Insulation and Finish Systems (EIFS)	Precast units
Siding— aluminum, wood and vinyl	

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 Joint Sealants

### STANDARDS

ASTM C-920, Type S, Grade NS, Class 25, Use NT, M, G, A & O

Fed. Spec. TTS-00230C, Type II, Class A

ASTM C-834 type OP, Grade-18°C

Meets performance requirements of AAMA 808.3

### PACKAGING

- Part # 40000 Cartridge - 304ml (10.3 fl.oz), 12 units /carton
- Part # 40039 Sausage - 600ml (20 fl.oz), 12 units / carton

### COLORS

- White
- Custom colors available (Contact customer service)

### SHELF LIFE & STORAGE

24 months when properly stored in original, unopened containers away from heat and direct sunshine

### VOC CONTENT

<1.5% less exempt solvents

## SUBSTRATES

- House wraps
  - Concrete
  - Masonry
  - Aluminum
  - Wood
  - Cement Board
  - Glass
  - Natural stone
  - Stucco
  - Ceramic/Porcelain Tile
  - Galvanized
  - Vinyl Siding
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## PRIMING

Tower® Residential Sealant is generally considered a non-priming sealant. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application consult Technical Services for additional information.

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## SUBSTRATE PREPARATION

Surfaces to be sealed must be dry and free of all dirt, dust, oil, mildew, loose paint, old caulk or other contaminates. Only apply when sealant, surface and air temperatures are above 40° F and rising. Do not apply on surfaces that exceed 160°F, or when rain is expected.

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## INSTALLATION

Tower® Residential Sealant comes ready to use. U-shaped joints should have the proper size backer rod or bond breaker tape installed to prevent 3 point adhesion. The sealant must reach deepest point of the joint. Remove excess with a clean rag and water. Tooling the joint flush with a putty knife is recommended. Tooling results in the correct bead shape, a neat joint, and maximum adhesion. 90° joints can be tooled smooth with a moistened rag to a minimum bead size of 3/8". In properly configured joints, can be used to seal 2" wide joints.

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## CURE TIME @ 75° F (24° C) 50% relative humidity Joint Size 1/2" X 1/4"

Tooling Time: 15 Minutes. Tack Free Time: 60 Minutes. At standard conditions paint can be applied after 4-6 hours. Please note that the cure of Tower® Residential Sealant varies with temperature and humidity. Full and complete cure may be 24 to 72 hours, note that lower temperatures and/or higher humidity will extend curing times.

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## CLEAN-UP/REMOVAL

Immediately after use, clean equipment with soap and water. Remove cured sealant by cutting with a sharp-edged tool. Remove thin films by abrading.

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## SHELF LIFE & STORAGE

Cartridges: 24 months when properly stored.

Storage: Store in original, unopened containers. Store away from heat and away from direct sunlight. Keep from freezing.

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### CERTIFICATION & TESTING

Property	Tower® Residential Sealant
<b>Type</b>	Acrylic Urethane
<b>Claims</b>	Class 25
<b>Tensile Properties</b>	Cured Sample
<b>Property</b>	Value
<b>Maximum Stress (psi)</b>	152 ± 5
<b>Elongation to Break</b>	1000% ± 44
<b>Elongation Max Stress</b>	892% ± 10
<b>Performance Test</b>	Result
<b>ASTM-C920 CLASS 25</b>	Pass
<b>TTS-00230</b>	Pass

#### NOTES:

Dry and wet adhesion testing conducted after fully curing sealant, as required by ASTM test protocol.

Do not pull test, water test or pressure test sealant until application has fully cured. Early testing may result in washout or failure of sealant.

Property	Tower® Residential Sealant
<b>Dry Peel Adhesion</b>	ASTM C-794 (pli)
<b>Aluminum</b>	32-42
<b>Glass</b>	39-45
<b>Cement</b>	8
<b>Wet Peel Adhesion</b>	ASTM C-794 (pli)
<b>Aluminum</b>	20-28
<b>Glass</b>	25-2
<b>Cement</b>	14-24
<b>Channel Slump ASTM C-639</b>	0 mm
<b>Tack-Free Time ASTM C-679</b>	60 mins
<b>Shore A Hardness</b>	15 ± 2
<b>Formulation Characteristics</b>	
<b>Extrusion Rate</b>	15 g/sec
<b>pH</b>	< 8.3
<b>Flex (180° bend, ½" mandrel)</b>	ASTM C-793
<b>After 250 hours WOM -15° F</b>	Pass
<b>± 25% Joint Movement</b>	ASTM C-719
<b>Aluminum</b>	Pass
<b>Glass</b>	Pass
<b>Cement</b>	Pass
<b>AAMA Testing</b>	Result
<b>AAMA 808.3</b>	Pass

## LIMITATIONS

Tower® Residential Sealant should not be used for the following:

- Structural applications
- Below grade applications
- Surfaces that are continuously immersed
- On frost laden or wet surfaces
- If rain is imminent with 4 to 6 hours
- Surfaces where direct food contact could occur.
- Do not apply on surfaces that are hotter than 160°F (71°C)
- Do not use solvents when tooling sealant.

## SAFETY

See Safety Data Sheet for additional safety information or refer to the product label.

To request a Safety Data Sheet, visit our web site at [www.towersealants.com](http://www.towersealants.com) or contact Tower Sealants at 866-897-7568.

For medical emergencies only, call ChemTrec 1-800-424-9300.

Make certain the most current versions of Technical Product Data Sheet and SDS are being used.

Call Customer Service (1-866-897-7568) to verify the most current versions.

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: **LIMITED WARRANTY:** Tower Sealants warrants that this product, provided it is properly :  
: stored and applied, will never crack, peel, or separate. If a failure occurs, return proof of :  
: purchase for replacement. 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. :  
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## Company Information

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