



Product Name:

TOWER TECH²™

Acrylic Urethane Elastomeric Sealant - Clear

Product Description:

Tower Tech²™ Clear is a 1 component, high performance, gun-grade, Acrylic Urethane Elastomeric Sealant applies white and dries translucent. Formulated from premium technology, reduces dirt pickup, eliminates yellowing and shiners. Internally plasticized resin requires no mixing or priming to bond to most materials, including concrete, wood and masonry. Superior adhesion and durability, 50% total joint movement and 1000% elongation. Forms an airtight, water resistant seal, once cured the bead is mildew resistant. Tower Tech²™ is safe for UV exposure.

Features

- Ready to use
- Easy to gun and tool
- Dries translucent
- Primer less application
- Weather resistant
- Wide temperature-application range
- Compatible with most coatings
- Low VOC content

Benefits

- No mixing; reduces labor cost
- Speeds application and makes neater joints
- Blends surrounding colors
- Lowers installation costs
- Produces long-lasting weather-tight seals
- Suitable for all climates
- May be painted acrylics and elastomeric coatings
- Less <exempt solvents 1.5%

Performance Characteristics:

- Exceeds ASTM C-920, Grade NS, Class 25
- Exceeds ASTM C-834, Type C, Grade -18°C
- Exceeds Fed. Spec TTS-00230C, Type S, Class A
- Up to 2” in properly designed joints

APPLICATIONS

- Siding – Wood, Vinyl, Aluminum
- Surfaces - Cement, Concrete, Hardboard
- Trim
- Curtain Wall Construction
- Stucco
- Panel Walls
- Precast Units
- Window & Door Installation
- Fascia
- Parapets
- Vinyl Siding
- Expansion Joints

SUBSTRATES

- Concrete
- Masonry
- Aluminum
- Wood
- Cement Board
- Galvanized
- Vinyl Siding

LOCATIONS

- Interior and Exterior
- Above Grade

TOWER SEALANTS
SEALANTS
Construction Grade Joint Sealants

APPLICATION

PRIMING:

Tower Tech²™ 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.

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 temperatures are above 40° F and rising. Do not apply on surfaces that exceed 120°F, or when rain is expected.

INSTALLATION:

Tower Tech²™ 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". When applied the product will appear white and once cured will become translucent.

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

The cure of Tower Tech²™ varies with temperature and humidity. Lower temperatures and humidity will extend curing times.

PHYSICAL & CHEMICAL CHARACTERISTICS:

PROPERTY

VALUE

Vehicle:	Proprietary Urethane/Modified Acrylic Blend (Siliconized)
Solids:	Approximately 65%
VOC Content:	Non-Chemically Curing Compound <1.5% Less Exempt Solvents
Weight per Gallon:	8.75 ± 0.5
Service Temp:	-40°F to 180°F
Application Range:	40°F and rising.
Max Temp Application:	Air temp 95° and substrate less than 120°F
Freeze Thaw Stability:	Passes 5 Cycles@ 0°F (Cycle=16hrs. @ 0°F, 8hrs at 75°F)
Dynamic Joint Movement:	Approximately + - 25%
Flash Point:	Not Applicable
Consistency:	10 to 40 G/S @ 75°F (SEMCO Gun at 50psi)
Applications:	Interior / Exterior
Warranty:	Lifetime Performance
Shelf Life:	24 months when stored at 50°F to 80°F
Coverage:	10.1 fl oz = 53 linear ft. at a 3/16" bead
Odor:	Mild Sweet Acrylic
Tooling Time:	15 Minutes
Tack Free Time:	60 Minutes
Full cure:	7-14 Days
Clean Up:	Soap & Water

CERTIFICATION & TESTING:

Property	Tower Tech ²
Type	Ac U
Claims	Class 25
Tensile Properties	Cured Sample
Property	
Maximum Stress (psi)	152 ± 5
Elongation to Break	1000% ± 44
Elongation Max Stress	892% ± 10
Performance Test	Result
ASTM-C920 CLASS 25	Pass
TTS-00230	Pass

NOTES:

Dry adhesion after fully curing sealant, as required by ASTM test protocol.

Adhesion testing legend:

C = Cohesive
 LC = Light Cohesive
 A = Adhesive
 SF = Substrate Failure.

Property	Tower Tech ²
Dry Peel Adhesion	ASTM C-794 (pli)
Aluminum	32-42 FD/C
Glass	39-45 FD/C
Cement	(8) SF
Wet Peel Adhesion	ASTM C-794 (pli)
Aluminum	20-28 C
Glass	25-28 C
Cement	14-24 C
Channel Slump ASTM C-639	0 mm
Tack-Free Time ASTM C-679	60 mins
Average	13 ± 2
Formulation Characteristics	
Extrusion Rate	15 g/sec
pH	< 8.3
Flex (180° bend, 1/2" mandrel)	ASTM C-793
After 250 hours WOM -15° F	Pass
± 25% Joint Movement	ASTM C-719
Aluminum	Pass-NF
Glass	Pass (SF)
Cement	Pass (SF)
AAMA Testing	Result
AAMA 808.3	Pass

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.



SAFETY:

See Material Safety Data Sheet for safety information or product label.
To request a Material Safety Data Sheet visit our web site at 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 MSDS are being used.
Call Customer Service (1-866-897-7568) to verify the most current versions.

PACKAGING:

Color	Product code	UPC CODE
Clear	TS-00130	8 4303400130 4

SHELF LIFE & STORAGE

Cartridges: 2 year when properly stored.
Storage: Store in original, unopened containers. Store away from heat and direct sunshine.

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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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