

AU-1 COMMERCIAL CONSTRUCTION SEALANT

Premium-Grade, High-Performance, High-Movement, Single-Component, Elastomeric, Acrylic Urethane Sealant

7 07 92 00
Joint Sealants

DESCRIPTION

AU-1 is a highly elastic, non-sagging, high-performance construction sealant with extreme resistance to aging. It is based on an aqueous-based urethane acrylic polymer. AU-1 is a commercial building industry sealant. Uniquely formulated from state of the art ingredients, including Aqueous Polyurethane Dispersion (PUD), which makes it an ideal sealant for commercial and industrial applications. AU-1 requires no mixing or priming to bond at the molecular level to most construction materials. AU-1 is paintable and will never bleed through the paint finish or create tacky surfaces, making it resistant to dirt pickup. Once cured AU-1 has exceptional mold and mildew resistance. AU-1 has outstanding UV resistance and maintains high elasticity and adhesion in all climates even after years of exposure. It is VOC compliant nationwide including all CARB and SCAQMD requirements. AU-1 can be used with confidence in all weather conditions and does not lose elasticity under constant, varying mechanical stress.

PRODUCT FEATURES

- + 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 sausages for less jobsite waste and lower disposal costs
- + Can be painted and can be tinted with standard latex paint
- + Superior adhesion to construction materials over long periods of time
- + Meets VOC requirements for all 50 states
- + Joint movement capacity of 50% ($\pm 25\%$) with 800% elongation providing excellent flexibility for moving joints

APPLICATIONS

Interior and exterior	Curtain wall joints
Vertical and horizontal joints	Mullion joints
Expansion and control joints	Above grade
Concrete panel joints	Stucco
Tilt-wall joints	Fascia
Exterior Insulation and Finish Systems (EIFS)	Parapets
Siding— aluminum, wood and vinyl	Flashing
Window frames—aluminum, wood and vinyl	Precast units

STANDARDS

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

Exceeds TCBSAT-30*

PACKAGING

- 10.1oz (299ml) cartridge,
12 cartridges per carton
- 20oz (640ml) sausage
packs, 12 per carton
- 2 gallon pails
- 5 gallon pails

COLORS

White, Off White, Stone,
Limestone, Tan, Aluminum
Gray, Redwood, Bronze and
Clear

Custom colors available
Contact customer service

Can be tinted with standard
latex paint

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

- Concrete
- Masonry
- Aluminum
- Wood
- Cement Board
- Clay & concrete roof tiles
- Building & house wraps
- Glass
- Natural stone
- Stucco
- Ceramic/Porcelain Tile
- Galvanized
- Vinyl Siding

Reference TCBSAT-30 for expanded detailed list of applicable AU-1 substrates*

PRIMING

AU-1 is 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.

SUBSTRATE PREPARATION

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

INSTALLATION

AU-1 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 the deepest point of the joint. Tooling the joint flush with a putty knife is recommended. Prior to curing remove excess sealant with a clean rag and water. AU-1 cannot be sanded, tooling will result in the correct bead configuration, a neat joint, and maximum adhesion. 90° fillet joints can be tooled smooth with a moistened rag to a minimum bead size of 3/8". Note, clear will apply white and dry translucent.

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. Most paints can be applied after 6-8 hours. Please note that the cure of AU-1 varies with temperature and humidity. Lower temperatures and/or higher humidity will extend curing times. In such cases painting should be delayed until the sealant has time to cure.

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.

SHELF LIFE

24 months when properly stored.

CERTIFICATION & TESTING

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

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

***TCBSAT-30 is the Tower Common Building Substrate Adhesion Test**
 AU-1 is applied to 30 common building substrates and tested in accordance with a modified version of ASTM C-794. AU-1 exceeds the minimum adhesion value as required by ASTM C-920 for all substrates.
 For more information on TCBSAT-30 contact Tower Sealants at tech@towersealants.com

Property	AU-1
Dry Peel Adhesion	ASTM C-794 (pli)
Aluminum	32-42
Glass	39-45
Cement	32
Wet Peel Adhesion	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
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
Glass	Pass
Cement	Pass
AAMA Testing	Result
AAMA 808.3	Meets physical requirements



STORAGE

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

SAFETY

See Material Safety Data Sheet for safety information or product label.

To request a Safety Data Sheet visit our web site at www.towersealants.com or contact Tower Sealants at 866-897-7568.

⚠️WARNING! Cancer and Reproductive Harm – Go to www.P65Warnings.ca.gov for additional information

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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