

AU-1 HYBRID CONSTRUCTION SEALANT

Premium-Grade, High-Performance, Single-Component, Elastomeric, Multipurpose STPE (Hybrid) Sealant

7 07 92 00
 Joint Sealants

DESCRIPTION

AU-1 Hybrid Construction Sealant is a single-component, high-performance waterproof construction sealant featuring superior adhesion, flexibility and durability. It is a silyl-terminated polyether adhesive sealant with elastomeric qualities. AU-1 Hybrid can be applied on damp surfaces, and in areas where moisture is frequently prevalent. Once cured, this sealant is mildew resistant, UV stable, and forms a permanent, waterproof seal, adhering to most common building substrates. It has very low VOC content meeting both CARB non-chemically curing sealant VOC (less exempt solvents): <1.5% and SCAQMD (less water and exempt compounds): <50 g/L requirements. AU-1 Hybrid was designed to perform in all climates, and will maintain adhesion and flexibility in the harshest of conditions.

PRODUCT FEATURES

- + Rapid cure - water ready in 1 hour
- + No primer required for most substrates
- + Easy application in cold environments
- + Seals joints up to 2" with proper joint design
- + Exceptional resistance to aging and weathering, maintaining flexibility, UV stability, and adhesion over long periods of time
- + Paintable in 1 hour
- + 100% solids
- + Superior adhesion to construction materials, including building wrap and Kynar® coated materials
- + Meets VOC requirements for all 50 states
- + Exceeds ASTM Specification C-920, Type-S, NS, Class 25

Product Specifications

Vehicle:	STPE Hybrid
VOC CARB:	<3.0 wt%
VOC (excluding water and exempt compounds):	18 g/L
Hardness:	Shore A 46
Solids:	100%
Service Temp:	-75°F to 220°F
Temp Application Range:	21°F to 140°F
Dynamic Joint Movement	50% (+/-25%)
Applications:	Interior / Exterior
Shelf Life:	12 months when stored at 50°F to 80°F
Coverage: 10.1 fl oz:	55 linear ft. at a 3/16" bead
Tooling Time:	10 to 15 Minutes
Skin Forming Time:	20 Minutes
Paint Over Time:	1 hour
Full Cure:	24 to 72 hours; dependent on joint configuration, temperature and humidity
Clean up:	Mineral spirits
Packaging:	10.1 fl oz. (300 ml)
Color:	White
Item Number:	TS-00468
UPC Code:	843034004688

APPLICATIONS

Interior and exterior	Parapets
Below grade	Siding— aluminum, wood and vinyl
Expansion and control joints	Window frames—aluminum, wood and vinyl
Concrete panel joints	Flashing
Tilt-wall or precast joints	Stucco
Exterior Insulation and Finish Systems (EIFS)	Building Envelope Waterproofing

SUBSTRATES

- Concrete
 - Masonry
 - Aluminum
 - Wood
 - Building Envelope Systems
 - Glass
 - Natural stone
 - Stucco
 - Ceramic/Porcelain Tile
 - Galvanized
 - Vinyl Siding
 - PVC
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PRIMING

AU-1 Hybrid 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.

SUBSTRATE PREPARATION

Surfaces to be sealed must be free of all dirt, dust, oil, mildew, loose paint, old caulk or other contaminants. Do not apply on surfaces that are hotter than 140°F or that will exceed 220°F.

INSTALLATION

AU-1 Hybrid 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. Tooling the joint to a concave is recommended. Smooth bead with a moistened cloth. 90° joints can be tooled to a minimum bead size of 3/8". Allow 60 minutes prior to painting or before exposure to water.

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

Tooling Time: 15 Minutes. Tack Free Time: 20 Minutes. Total Cure Time: 24 hours. At standard conditions paint can be applied after 1 hour. Please note that the cure of AU-1 varies with temperature and humidity. Lower temperatures and/or lower humidity will extend curing times. In such cases painting should be delayed until the sealant has time to cure. Once cured, service temperature range: -75°F (-40°C) to 220°F (104°C).

CLEAN-UP/REMOVAL

Immediately after use, clean equipment with mineral spirits. Excess cured sealant must be cut or scraped away. Remove thin films by abrading.

SHELF LIFE & STORAGE

10.1 oz cartridges: 12 months when properly stored.

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

CERTIFICATION & TESTING

Property	AU-1 Hybrid
Type	STPE
Claims	Class 25
Tensile Properties	Cured Sample Value
Tensile Strength ASTM D-412	225 psi
Elongation to Break	450-500%
Performance Test	Result
ASTM-C920 CLASS 25	Pass
TTS-00230	Pass

Property	AU-1 Hybrid
Tack-Free Time ASTM C-679	20 mins
Skin Over Time MNA Method	40 mins
Shore A Hardness ASTM C-661	46
Formulation Characteristics	
Extrusion Rate ASTM C-1183	320 g/min
Modulus ASTM D-412	High
Specific Gravity	1.66
± 25% Joint Movement	ASTM C-719
Aluminum	Pass
Glass	Pass
Cement	Pass
AAMA Testing	Result
AAMA 808.3	Pass
AAMA 803.3	Type I
AAMA 802.3	Type II

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 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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