

# APS 500<sup>®</sup>

## ADVANCED POLYMER SEALANT

## TECHNICAL DATA APS500 SEALANT

### PRODUCT DESCRIPTION

APS 500<sup>®</sup> is a one-component, low-modulus, moisture curing, advanced polymer adhesive and sealant. The product's one component design ensures that it cures rapidly when exposed to atmospheric moisture to form a durable bond and can be applied in a wide range of temperature and weather conditions (-40° F to 140°F). It is engineered to deliver aggressive adhesion with the most common construction substrates, while ensuring complete compatibility – even with rubberized asphalt flashing and other exible plastic building materials. These unique features make it the sealant of choice for professionals everywhere.

### USES

APS 500<sup>®</sup> can be used for a variety of applications including, but not limited to; roofing, siding, windows, doors, concrete & masonry, metal buildings, EFIS, HVAC, marble/granite, etc.

### DIRECTIONS FOR USE

Read and understand technical data sheet completely before beginning installation. Always do a test area to ensure product satisfaction and to become familiar with proper application techniques.

### SURFACE PREPARATION

The substrate must be clean, frost free and free of any oils, greases or incompatible sealers that may interfere with adhesion. Do not apply if surface is contaminated.

### APPLICATION

Cut nozzle to desired bead size. Apply with caulking gun, forcing adhesive/sealant onto the substrate. Tool if necessary.

### CLEAN-UP

Clean excess material with mineral spirits or similar solvent.

### CURING

Under normal conditions (70°F, 50% RH) material cures at roughly ¼” per 24 hours. The higher the humidity and temperature, the faster the cure.

## CHEMICAL & PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile Strength	ASTM D412	205 psi
Elongation	ASTM D412	500%
Shore Hardness	ASTM D 2240	25 +/- 5
Service Temperature		-75°F to +300°F
Join Sealant Designation	ASTM C920	Type S, Grade NS, Class 50, use A, NT, G, M
<sup>1</sup> Adhesion and Cohesion	ASTM C719	Pass on glass, aluminum and concrete for +/- 50% movement
Staining	ASTM D2203	None
Lap Shear	ASTM 961-06	190 psi
VOC	EPA Method 18	9 g/L (0.14%)
Low Temp. Flexibility	ASTM C 711	Pass -10 deg. F. ¼ inch mandrel
High Temp. Flexibility	Industrial Method	Up to 425 deg. F for short periods
Cure Rate	Industrial Method	1/4” Bead per 24 Hrs
Skin Time Cure Time	Industrial Method	40° F at 40% humidity 40 minutes 2 - 3 days 75° F at 50% humidity 10 minutes < 24 hours 95° F at 95% humidity 5 minutes

\*All values are approximations based upon industry information and can vary dramatically due to joint dimensions/conjunctions, porosity, texture of substrates, irregularities, installation techniques, waste, etc. that are beyond Triangle Fastener's control. Triangle Fastener is not liable for variances to linear feet/coverage; do a test area to determine material required to use.

## APPROXIMATE\* LINEAR FEET/COVERAGE PER 10.1 FL. OZ. CARTRIDGE (298 ML)

		WIDTH							
		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
DEPTH	1/8"	99	49	33	24	20	16	14	12
	1/4"		24	20	12	10	8	7	6
	3/8"			11	8	6	5	5	4
	1/2"				6	5	4	3	3

### LIMITATIONS

Do not apply over damp or contaminated surfaces. Always utilize the Safety Data Sheet (SDS) for information on Personal Protective Equipment (PPE) and health hazards.

### STORAGE/SHELF LIFE

Be sure to rotate inventory accordingly. Material must be stored under controlled/dry environment (below 75°F). Cartridges/Sausages; use within 10 months from date of manufacture. Pails/Drums; use within 6 months from date of manufacture.

### PACKAGING

10.1 oz. Cartridge: 24/case, 80 cases/pallet



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TRIANGLE FASTENER CORPORATION

800.486.1832 | [www.trianglefastener.com](http://www.trianglefastener.com)

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