

APS 500®

ADVANCED POLYMER SEALANT

TECHNICAL DATA APS500 SEALANT

PRODUCT DESCRIPTION

APS 500® 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. APS500, like all MS sealants, are UV resistant.

USES

APS 500® 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.. NSF Certified. This product is acceptable for use as a construction adhesive (P1), in and around food processing areas. Neither direct nor indirect contact with food or potable water is permitted. Do not use on asphaltic materials.

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. Can be applied to damp surfaces, but best results are achieved when applied to a clean dry surface.

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, NSF Certified
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	¼" 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 contaminated surfaces. Best result when applied over a clean dry surface. 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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