

AP-1 GREEN-SEAL®

Heavy Duty Construction Sealant & Adhesive

APOC® AP-1 GREEN-SEAL® is the strongest construction adhesive, delivering unmatched toughness that lasts. This next generation moisture-cure sealant delivers maximum durability and superior adhesion to a wide variety of building materials. With enhanced UV protection, Green-Seal won't crack or peel in exterior applications. Green-Seal has an exceptional application range and cures quickly so you can be sure the job gets done on time, every time. Available in white and gray, AP-1 Green-Seal is also paintable and has no offensive odor and designed with sustainability in mind by minimizing waste, energy consumption and its impact on the environment.

- Quick cure and can be applied from 0 °F to 140 °F.
- Superior adhesion for bonding multi-surface applications under extreme conditions.
- Extreme flexibility and recovery, perfect for areas needing a sealant that withstands high joint movement.
- Extreme strength for the toughest applications with most building materials including tile, metal, wood, insulation, foam and other substrates.



USE FOR: General Construction, Wood, Metal, Stone, Concrete, Fiberglass, Aged Single-Ply
IDEAL FOR SEALING, BONDING AND REPAIRING: Expansion Joints, Doors, Windows, Siding, Gutters, Vents, Ducts, Roofs, Crown Molding, Gaskets, HVAC, etc.





COMPLIANCE: Exceeds performance requirements of ASTM C920, Type S, Grade Class NS

DESCRIPTION: APOC® AP-1 Green-Seal® Heavy Duty Construction Sealant & Adhesive is an all-purpose, paintable, structural adhesive and sealant that can be used in a wide variety of industrial, commercial and residential applications. AP-1 Green-Seal is a moisture cure, hybrid technology that can be used for roofing, solar, HVAC, siding, general construction, landscaping, plumbing and many other applications. AP-1 Green-Seal bonds to most building materials including glass, wood, masonry, block, asphalt shingles, tile, aged single plies, insulation, foam, aluminum, metal and many other substrates. Not recommended on smooth surfaced asphalt. It forms a highly flexible, elastic and waterproof seal, exceeding the rigorous demands of the professional contractor. It performs under the toughest conditions, including extreme rain, desert heat, freeze thaw cycles and sub-zero temperatures. Engineered with sustainability in mind, Green-Seal is isocyanate free and low VOC. It provides a safer, stronger and superior application with minimal impact on the environment. AP-1 Green-Seal is specially designed and optimized for maximum performance, providing peace of mind to contractors, building owners and homeowners alike. Green-Seal is sustainable by design and engineered to outperform.

PREPARATION: For detailed application instructions, download the APOC APP, or visit www.apoc.com. Completely read all application instructions and check weather conditions prior to starting any work. If moisture or dew is present, product will bond, however use only as a topical or temporary repair to avoid water entrapment. All surfaces should have proper drainage, be clean, dry and free from all dirt, grease, debris, rust, release agents or other contamination that may prevent proper bonding or reduce the sealant's performance. Clean surfaces using appropriate cleaner for substrate. Isopropyl alcohol or other approved cleaners may be used to clean and prepare surface prior to application. Surfaces must be structurally sound and in good condition. Surface and air temperatures must be above 32 °F (for 24 hours) and rising, but not above 110 °F.

FOR BEST RESULTS: Sealant should be stored at room temperature prior to application. This will provide the opportunity for correct tooling and proper adhesion for application in cold temperatures or where moisture may be present. Once container is opened, use all product right away. Opened product will immediately begin to cure from surrounding moisture in contact with the sealant and / or from humidity in the air.

FALL PROTECTION WARNING: Always use personal fall protection devices and follow procedures in accordance with OSHA and local regulatory requirements when walking or working on roofs. Use safety equipment such as tie-offs, safety lines, body harnesses, toe boards and ladders. Dusty, damp or wet conditions as well as certain shoes can result in slippery surfaces and create a fall hazard. Always be cognizant of where you are in relation to your surroundings, including but not limited to: the edge of the roof, any projections, skylights and any other objects which could cause you to slip or fall. Falling from a roof can result in serious harm or death.

APPLICATION: Protective clothing, gloves and eyewear should be used during application of these products. Apply with a caulking gun. Trim nozzle to desired bead size, puncture foil seal at inner base inside the nozzle and load into caulk gun. While applying sealant, hold nozzle at a 45° angle, pushing sealant into gap. Sealant may be brushed or troweled to desired finish. All joints should utilize a backer rod that is 25% larger than the joint opening. Other approved bond breakers may also be used to ensure proper movement of joint. All joints must be installed according to ASTM and SWRI recommendations and guidelines. Design all joints with a depth to width ratio of 1:2 (joint width should be 2X the joint depth). (Example joint width of 1/2" should have a sealant depth of 1/4" at the center point, width 3/4" should have a depth 3/8"). Can be coated or painted and fully cures in 48 hours at 70 °F & 50% relative humidity. Low humidity, thicker films, poor air flow and lower temperatures will increase dry times. DO NOT THIN.

LIMITATIONS: Avoid substrates/joints contaminated with grease, wax and / or corrosion. Long term exposure to corrosive chemicals may result in deterioration of sealant. A compatibility test must be performed if used in conjunction or close proximity with another sealant. Surfaces must be completely clean and structurally sound. Due to normal building movement, sealant separation may occur if surfaces are not properly cleaned or if weak or damaged surfaces exist that the sealant is bonded to. Does not bond well to smooth asphalt surfaces.

CLEAN-UP: Xylene, Toluene, or MEK

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Manufactured by / Fabricado por:

Gardner-Gibson, Inc.

P.O. Box 5449, Tampa, FL 33675

See SDS for more info

TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Density	11.5 lbs./gal.
Low Temp Flex @ (-20 °C)	Pass
Tack Free	30 min.
Solids by Weight	>95%
Tensile Strength	>200 psi
Elongation (ASTM D412)	>150%
Slump @ 80 °C	Pass
Consistency	Pliable
Skin Time (50% Relative Humidity, 70 °F)	2-4 hours
Full Cure (50% Relative Humidity, 70 °F)	24 hours
Application Temperatures	40 °F-110 °F
Clean-up Tools	Xylene, Toluene, MEK
Shore Hardness (A)	55 ± 5
Shelf Life (Store < 80 °F) (50% RH)	12 months (original, unopened container)
Sag	None
Water Resistance	Pass
Clean-up	Xylene, Toluene, or MEK

Product Colors

White	AP-1000-1-61
Gray	AP-1000-7-61

Approx. Shipping Weights: (Note: All approx. weights include container)

10 fl. oz tube (296ml)	1lb.
1 Case (12 tubes)	12 lbs.

VOC: <20 g/L (regulatory)

HANDLING PRECAUTIONS: Store product in the cargo area of vehicle, and secure on top of 6 mill plastic sheeting to prevent damage due to accidental spills. Product safety information required for safe use is not included. Before handling, read product safety data sheets and container labels for safe use and for physical and health hazard information. Safety Data Sheets are available on the APOC website at www.apoc.com, the APOC APP, by contacting APOC at technicalinfo@apoc.com or calling (813) 248-2101.

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