



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

DESCRIPTION: APOC® AP-1 Green-Seal® Lifetime 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, non-asphaltic roofing materials, insulation, foam, aluminum, metal, aged single plies and many other substrates. 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. 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). 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. Does not bond well to asphalt.

CLEAN-UP: Xylene, Toluene, or MEK

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Gardner-Gibson, Inc.
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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-1000-1-62 |
| 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.

LIMITED WARRANTY AND DISCLAIMER: To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. User must contact APOC to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. APOC Roofing Systems, Inc. (herein "APOC") hereby warrants to the original purchaser, contingent upon original proof of purchase, that this product will be free from any and all manufacturing defects that may materially and adversely affect the product's performance for a period of one (1) year from the date of original purchase ("Warranty Period"). Product must be applied in accordance with the proper application procedures, and for the intended use as stated on the label. Proper preparation and drying conditions must be observed to achieve correct results. Should a manufacturing defect materially and adversely affect this product's performance, APOC shall, within its sole discretion and upon receipt of Purchaser's timely written notice within the Warranty Period, provide replacement product(s) or refund the purchase price of the defective product. THIS LIMITED WARRANTY IS PURCHASER'S SOLE AND EXCLUSIVE WARRANTY AND REPLACES ALL OTHER WARRANTIES, CONDITIONS, REPRESENTATIONS AND GUARANTEES, WHETHER EXPRESS OR IMPLIED, WHETHER BY STATUTE, AT LAW OR IN EQUITY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This limited warranty does not cover labor or installation costs, water damage, consequential damages or incidental damages. Under no circumstances will APOC be liable for any amount in excess of the product purchase price. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Direct all warranty claims in writing along with original proof of purchase to APOC, c/o Warranty Claims Department, P.O. Box 5449, Tampa, FL 33675. The exclusive venue for any legal action arising out of the purchase of this product or this warranty shall be had in a court of competent jurisdiction within Hillsborough County, Florida. Florida law shall govern. For additional Limited Warranty information, visit www.apoc.com/pages/warranty.

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