


# AP 585



## ARMOR FLEX® WHITE LIQUID ROOF MEMBRANE Data Sheet

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**COMPLIANCE:** ASTM C836. CRRC, Energy Star, Miami-Dade County Product Control Approved, FP&L, Title 24. UL CLASS A RATED File #R11333.

**DESCRIPTION:** APOC® 585 Armor Flex® White is a moisture cure, fluid applied, high solids, silicone coating. Armor Flex® White creates a shield of protection over your roof with Pond-Proof™ Technology and cutting edge performance. Engineered with "Green" solvent-free polymers, Armor Flex® White outperforms traditional solvent and solvent-free products including asphaltic, urethane, thermoplastic and other protective coating products. Additionally, Armor Flex® White has minimal impact on the applicator or our environment.

**Why Armor Flex® White?** Because Armor Flex White Works! Armor Flex White is formulated to help reduce cooling costs, heat gain, carbon emissions and health hazards associated with these emissions. Electricity usage can be reduced and utility bills lowered. When applied according to the instructions, Armor Flex® White creates a tough, flexible and resilient barrier that helps prevent damage from severe weather; and with proper maintenance, Armor Flex® White will greatly extend the life of your roof!

**PREPARATION:** All surfaces must be dry and free of dust, dirt, oil, loose materials, peeling paint etc. Rusty metal must be cleaned and primed with APOC® rust converting primer. Asphalt surfaces must be treated with APOC bleed blocking primer. Clean and seal all penetrations, skylights, vents, corners, curbs, drain areas, scuppers, base flashings and any cracks, blisters, buckles or other repairs with APOC® Liquid Flash and #483 Polyester Reinforcing Fabric. This must be completed prior to application of Armor Flex® White. For fabric size requirements, see our website which contains specifications and detail drawings. Surfaces with mildew or biological growth must be cleaned with a bleach solution (2 parts water to one part bleach). The remainder of the roof should be pressure washed using an approved cleaner. Complete after sealants have been applied and cured. Use only a wide fan spray tip. Previously coated surfaces may be required to cure for a minimum of one year prior to coating depending on material type. Contact APOC with questions. NOTE: If surface temperatures become hot (over 180°F) during application, wait for roof to cool. DO NOT apply to a wet or damp surface. Roof surfaces become dirty as they age and can be cleaned with a light power washer and mild detergent. Some difficult to adhere surfaces may require a primer. Complete a pull test if adhesion is in question.

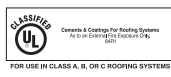
**SPRAY INFO:** 3500 PSI at tip, .030 - .041 Tip Size, 3 GPM, 3/4" min hose size.

**FOR BEST RESULTS:** Some difficult to adhere surfaces may require a primer. Complete a pull test if you have questions regarding an application.

**APPLICATION:** For exterior use only. Do not heat over 130°F or thin. Rain, dew, fog, frost and relative humidity greater than 85% will result in adhesion problems and reduced performance. Do not apply if these conditions exist at the time of completed application. Protective clothing, gloves and eyewear should be used during application. Application should be completed when air, surface and material temperatures are 55°F (for 24 hours) but not above 180°F. Application can take place at colder temperatures (above 35°F) however, precautions must be taken to ensure there is NO MOISTURE, DEW or FROST present on the roof. These conditions will create adhesion issues. Apply with a 3/8" nap exterior paint roller, long bristle brush or professional airless sprayer. Apply a uniform coat over entire surface, avoiding excessive rolling. Coverage rate is 1-2 gallons per square per coat. APOC #483 polyester reinforcing is to be embedded into Armor Flex® White during application in the following locations: water ways, perimeter edge, base flashings, drain areas, low lying areas and ponding areas. See APOC website for specific application details. Second application & additional coats thereafter (per warranty requirements), shall be applied between 4-24 hours after first coat. Coating dries in 2-4 hours and fully cures in 8-24 hours at 70° F and 50% relative humidity. Thicker films, poor air flow and low humidity & temperatures will increase dry times. Seal container when not in use.

**CLEAN-UP:** Spray equipment with mineral spirits or VM&P Naptha. Do not leave Armor Flex® White for long periods in hoses, pumps or spray guns.

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 See MSDS for more info



### TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS

Solids Weight (ASTM D-1644)	96± 2%
Solids Volume (ASTM D-2697)	96± 2%
Density	10.7 lbs/gal
Tensile Strength (ASTM D-2370)	450 psi
Elongation (ASTM D-2370)	210%
Tear Resistance (ASTM D-624)	37
Initial Reflectivity	.90
Initial Emissivity	.90
SRI Value	115 Initial
Permeability (ASTM E-96)	5 perms
Water Absorbtion (ASTM D-471)	.1% after 2 weeks at 75°F
Weathering	No degradation after 5000 hrs
Tack Free Time	1 hour
VOC	10 g/L
Durometer Hardness	50± 5 pts
Maximum Surface Temp	180°F
Flash Point	>290°F
Cure Time (min. humidity 20% RH)	Min 2 hours - Max 8 hours
Shelf Life	Up to 12 months depending on storage

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

5 gallons (18.9L)	53.5 lbs.
50 gallon drums (208.2L)	540 lbs.

### CAUTION!: MAY BE HARMFUL OR FATAL IF SWALLOWED. EYE, SKIN AND RESPIRATORY IRRITANT.

If swallowed DO NOT induce vomiting. Call physician immediately. In case of: Eye contact - flush with large amounts of room temperature water for 15 minutes. Skin contact - wash thoroughly with soap and water. Irregular or stopped breathing - administer oxygen, give artificial respiration. Get medical attention (immediately). Avoid prolonged breathing of vapor or spray mist. (NIOSH/MSHA TC 23C or equivalent).

**FOR EXTERIOR USE ONLY**  
 Use with adequate Ventilation  
 Keep Out of Reach of Children  
 VOC: 10 g/L max.

CALIF. PROP. 65 • CHEMICAL WARNING (CALIFORNIA HEALTH AND SAFETY CODE #25249.5 ET SEQ). WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Use proper protection and adequate ventilation, when using product.

**PRECAUTIONS:** Protect building inlet from product vapors or fumes. Do not store at temperatures below 35°F. Keep closed when not in use. When transporting this product, ensure that lid is tight and pail secured. Do not allow pail to tumble as this may cause lid to loosen and leakage to occur. Do not transport on passenger seats or inside the passenger compartment of any vehicle. Store product in the cargo area of vehicle, and secure over protective cloths to prevent damage due to accidental spills. Ponding Water can create excessive weight on roofs which may not structurally support the additional weight. This can create a collapse hazard which can severely hurt or kill people. It is recommended to follow NRCA guidelines to remove Ponding Water from roof surfaces. Do not reuse empty container. Dispose of in an environmentally acceptable manner. Do not use in drinking water or food systems. Seal container when not in use.

**WARRANTY AND DISCLAIMER:** For limited warranty and disclaimer information, visit our website at: [www.apoc.com/productwarrantyinfo](http://www.apoc.com/productwarrantyinfo).



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