



**COMPLIANCE:** CRRC. Title 24. Miami-Dade County Product Control Approved.

**DESCRIPTION:** Energy-Armor® by APOC® is a high quality line of weatherproofing products designed with the next generation of energy efficiency technology. Energy-Armor products are specifically designed to lower cooling costs, reduce energy consumption, eliminate heat and make your roof last longer, we guarantee it! **APOC® 247 Sun-Shield® Bright White Elastomeric Roof Coating** is a flexible, white acrylic roof coating. This product resists cracking and peeling while extending the life of the roofing substrate. It expands and contracts with the roofs movements to resist damage. This coating also provides a protective barrier which reflects the suns heat and destructive UV rays. In turn, this helps to cool surfaces and leads to a reduction of roof temperatures. APOC 247 expands and contracts up to 275% and provides good adhesion to a variety of roofing substrates.

**PREPARATION:** All surfaces must be dry and free of dust, dirt, oil, loose granules, gravel, peeling paint and all other foreign matter. Rusty metal must be cleaned with a wire brush and primed with APOC® 291 before application of this product. Surfaces with mildew growth or stains must be cleaned with a bleach solution (2 parts water to one part bleach) prior to applying this product. Rinse thoroughly. Pressure washing entire surface is recommended for best results (use only a wide fan tip - do not allow stream to tear into roof surface). Repair all leaks and cracks with Polyester Reinforcing Fabric and APOC® 264 White Roof Patch or APOC Incredible™ Fleece Top™ Tape where appropriate. Allow to cure 24 - 36 hours before application of roof coating. Surfaces previously coated with aluminum, asphalt or tar should be allowed to cure for a minimum of one summer season prior to coating with this product. Do not heat or thin. **DO NOT APPLY WHEN HEAVY DEW OR RAIN IS EXPECTED WITHIN 2 - 4 HOURS.**

**FOR BEST RESULTS:** Apply in accordance with APOC Guide Specifications found at [www.apoc.com](http://www.apoc.com).

**APPLICATION:** For exterior use only. Protective clothing, gloves, and eyewear should be used during application of this product. Always apply on a clear, warm sunny day. Apply in morning hours to allow maximum cure time. Application should be completed a minimum of 4 hours prior to sunset. Temperatures must be above 55 °F (for 24 hours) and rising, but not above 110 °F. Apply with a 3/4" nap exterior paint roller or professional airless sprayer. First, apply one coat over all seams and joints. Allow to cure for one hour or until dry, then apply two (2) uniform coats over entire surface, avoiding excessive rolling. Two full coats are needed for all applications. Dries for recoat in 4 hours and fully cures in 24 - 36 hours at 70 °F & 50% relative humidity. Higher humidity, thicker films, poor air flow and lower temperatures will increase dry times. Coverage rate is 1 1/2 gallons per square, per coat. Two coats are required for a total application of 3 gallons per square.

**SPRAY INFO:** 2000 - 3000 PSI, .030 - .041 Tip Size, 1 - 3 GPM.

**NOTE:** If roof becomes hot (over 100 °F) during application, lightly mist roof surface with water spray to prevent coating from drying too fast. Remove any excess or puddling water prior to coating. If roof surfaces become soiled as they age, due to the elements, Elastomeric can be cleaned with a mild water and bleach solution. Excessive scrubbing should be avoided. If color tinting is desired, a typical addition of 3 - 4 ounces per gallon of Universal colorant can be added, which will result in light pastel colors. Color tinting will disclaim warranty.

**STORAGE & HANDLING PRECAUTIONS:** 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](http://www.apoc.com). You can also obtain a copy from your local APOC Distributor or APOC sales representative. **Shelf life is two years from date of manufacturer.** Do not store at temperatures below 50 °F or above 110 °F.

For maximum shelf life store between 60 °F and 80 °F. Keep container sealed when not in use. Always keep covered and protected from the elements. 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. The manufacturer also disclaims liability for flat surface application where poor drainage or ponding of water may prevail. Do not reuse empty container. Dispose of in an environmentally acceptable manner. Do not use in drinking water or food systems.

**CLEAN-UP:** Clean tools with soap and water.

### TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Weight Per Gallon (ASTM D1475)	11.42 lbs.
Solids by Weight* (ASTM D2369)	62%
Solids by Volume* (ASTM D2697)	50%
Viscosity (ASTM D562)	110-140 ku
Elongation (ASTM D2370)	275%
Tensile Strength (ASTM D2370)	250 psi
Reflectivity (ASTM C1549)	.87 (Initial) .76 (3 yr.)
LEED Emissivity (ASTM E408)	.93 (Initial)
CRRC Emissivity (ASTM C1371)	.90 (Initial) .90 (3 yr.)
LEED SRI (Oak Ridge Calculator)	110
Permeability (ASTM D1653)	< 20 perms
Adhesion to Polyurethane Foamgood	
Consistency	Brush, spray or roller
Skin Time (50% Relative Humidity, 70 °F)	4 hours
Full Cure (50% Relative Humidity, 70 °F)	24 - 36 hours
Application Temperatures	55 °F and rising
Flammability	N/A (water-based)
Clean-up Tools	Soap and warm water

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

1 gallon (3.1L)	12.3 lbs.
(4) 1 gallon containers/case	52 lbs.
5 gallons (18.9L)	62 lbs.
55 drums (208.2L)	672 lbs.
275 gallon tote (1,039.5L)	3,200 lbs.

**VOC: <50 g/L (regulatory)**

**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. Liability, if any, is limited to replacement of product unless installed by an approved contractor in accordance with APOC warranty procedures and program.

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

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See SDS for more info