



## KOOL-ARMOR™ ULTRA PREMIUM WHITE ELASTOMERIC ROOF COATING DATA SHEET

**COMPLIANCE:** CRRC. Title 24. Energy Star. ASTM D6083. Miami-Dade County Control Product Approved.

**DESCRIPTION:** APOC® 258 KOOL-ARMOR™ ULTRA Premium White Elastomeric Roof Coating is our top performing protective, reflective and elastomeric coating. Kool-Armor Ultra combines multiple performance enhancers (4X) into a single coating, resulting in unmatched quality performance and durability that will drastically reduce roof membrane temperatures and help reduce heat transfer into your home or building. This coating provides exceptional flexibility and elongation, will not crack, is 91% reflective, emits over 90% of heat gain, stay's cleaner longer and contains Poly-Cryl technology for improved water resistance; all of which contribute to improved energy efficiency, lower cooling costs and greater sustainability. Protect your roof, walls, home or building from the sun, wind, rain and destructive elements with Kool-Armor Ultra Premium White Elastomeric Roof Coating. Backed with 20 Years of Durability, the elements are no match for APOC Kool-Armor Ultra. Note: Make all repairs before applying coating.

**Heat-Proof** – is a proprietary technology specially engineered to block, emit, reflect and push heat away from your roof or building. This is accomplished through the introduction of highly reflective and emissive pigments combined with ceramic spheres. This proprietary blend optimizes reflectivity and emissivity and helps to keep roof surfaces cool.

**Never-Crack** – APOC Never Crack Titanium Enhanced Coating Technology uses a blend of pure Titanium Dioxide and high performance resins provide an exceptionally strong and durable Coating Technology designed to withstand the destructive forces of nature including extreme temperatures, UV Exposure and rain. Never-Crack coating Technology provides peace of mind for added protection and durability.

**Sta-Kleen** – In a new Advancement in Coating technology which is scientifically formulated to Self-Clean and help surfaces form collecting dirt and other particulate matter which result in coating surfaces becoming dirty and reducing their energy efficiency. Sta-Kleen Technology keeps your roof cleaner longer and helps to keep your roof or building cooler.

**Poly-Cryl** – Poly-Cryl coatings contain acrylic resins with urethane injected into the backbone of the resin providing added durability and water resistance.

Protect your roof, walls, home or building from the sun, wind, rain and destructive elements with KOOL-ARMOR™ ULTRA Premium White Elastomeric Roof Coating. Backed with 20 Years of Durability, the elements are no match for APOC KOOL-ARMOR ULTRA.

**PREPARATION:** Download the APOC APP for detailed installation instructions, videos, tips specifications, product handling and Safety Data Sheets. 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 Flash N' Seal 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 RAIN OR HEAVY DEW IS EXPECTED WITHIN 24 HOURS OF APPLICATION COMPLETION.

**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:** 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 for 15 Year Durability or three (3) uniform coats for 20 Year Durability over entire surface, avoiding excessive rolling. Two to Three full coats are needed for all applications. Dries for recoat in 4 - 6 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. For EPDM, TPO, PVC or other rubber/synthetic surfaces, a primer may be required. Contact APOC for specifications and requirements. Always complete a pull test prior to application. If excessive moisture or water is present, install and reinforce an extra base layer of coating with Polyester reinforcement. Always follow local building code and NRCA guidelines for roof slope requirements. Not recommended for ponding water conditions where poor drainage exists.

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

**COVERAGE RATE:** 1.5 gallons per 100 sq. ft., per coat. See application instructions.

**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.

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

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See SDS for more info

### TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Weight Per Gallon	12 lbs.
Solids by Weight (ASTM 1644)*	65%
Solids by Volume (ASTM D2697)*	52%
Viscosity (ASTM D2697)	110 - 140 ku
Elongation (ASTM D2370)	>300%
Tensile Strength (ASTM D2370)	>250 psi
Reflectivity (ASTM C1549)	.87 (Initial) .74 (3 yr.)
LEED Emissivity (ASTM E408)	.95 (Initial) .94 (3 yr.)
CRRC Emissivity (ASTM C1371)	.89 (Initial) .90 (3 yr.)
LEED SRI (Oak Ridge Calculator)	110
Permeability (ASTM D1653)	<15 perms
Adhesion to Polyurethane Foam	>2 lbs./in
Adhesion to EPDM (ASTM C994/D903)	>2.7 lbs./in.
Elongation after 1000 hrs. accelerated weathering (ASTM D2370)	>163%
Low Temp Flex, 1/2 mandrel, -15 °F after 1000 accelerated weathering (ASTM D522)	Pass
Appearance after 100 hours accelerated weathering (ASTM D4798)	Pass
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 - 110° F
Flammability	N/A (water-based)
Clean-up Tools	Warm Water & Soap

\*NOTE: Percentages listed are + or - 5%

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

5 gallons (18.9L)	63 lbs.
55 drums (208.2L)	704 lbs.
275 gallon tote (1,039.5L)	3,400 lbs.

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

**HANDLING PRECAUTIONS:** Store product in the cargo area of vehicle, and secure on top of 6 mil plastic sheeting to prevent damage due to accidental spills or loosening of lids. 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), the APOC APP, by contacting APOC at [technicalinfo@apoc.com](mailto:technicalinfo@apoc.com) or calling (813) 248-2101.

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