



ENERGY-ARMOR™ ULTRA TURBO-DRI™ PREMIUM ELASTOMERIC COATING DATA SHEET

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

DESCRIPTION: APOC® 258 ENERGY-ARMOR™ Ultra Turbo-Dri™ Premium Elastomeric Coating is our top performing protective, reflective and elastomeric coating. 258 Energy-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, stays 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 258 Energy-Armor Ultra. Backed with 20 Years of Durability, the elements are no match for 258 Energy-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.

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 a rust converting primer 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 prior 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.

TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Weight Per Gallon (ASTM D1475)	12 lbs.
Solids by Weight (ASTM D2369)*	65%
Solids by Volume (ASTM D2697)*	52%
Viscosity (ASTM D562)	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)

STORAGE & HANDLING PRECAUTIONS: Do NOT allow packaged product to FREEZE. Do not heat or thin. Keep container sealed when not in use. For maximum shelf life store between 50 °F and 80 °F. Storage at temperatures above 90 °F will reduce shelf life. Tightly seal container after opening and when not in use. Always keep product covered, out of direct sunlight and protected from the elements. When transporting this product, ensure that the lid is tight and pail secure and upright. 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 on top of 6 mil plastic sheeting to prevent damage due to accidental spills or loosening of lids.

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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