

technical information

#8636



Ceramic Reflective Insulating Coating Systems



PROTEK- THERMCOTE/A-10™ ELASTOMERIC ACRYLIC URETHANE CERAMIC INSULATING ROOF COATING

PRODUCT DESCRIPTION

THERMCOTE/A-10™ is a bright white, 100% Acrylic Elastomeric, Urethane, Ceramic, waterproof Roof Coating for sloped roofs. A waterborne, latex-based, high build formula that waterproofs, insulates, soundproofs, beautifies and protects. **THERMCOTE/A-10™** forms a thick rubber-like ceramic shield of protection that expands and contracts with varying hot and cold temperatures and resists thermal shock. **THERMCOTE/A-10™** offers superior mildew resistance, ceramic insulation and soundproofing combined with excellent adhesion, ultraviolet ray reflectivity and a beautiful finish. Designed specifically as an insulating, energy saving coating that combats the destructive environmental forces of nature and actually extends the life of the roof. **THERMCOTE/A-10™** offers a 12 YEAR LIMITED WARRANTY when applied per manufacturer's specifications. An inexpensive solution to re-roofing. This easy-to-apply roof coating will provide years of durable protection and outstanding beauty.

PRODUCT USES

THERMCOTE/A-10™ is recommended for well- drained, *sloped* roof surfaces only. For flat roof applications or where ponding water is a problem, use **ProTek-THERMCOTE/A-PW5™ Ponding Water Formula Roof Coating**. **THERMCOTE/A-10™** has excellent adhesion on weathered wood, shakes, plywood, primed metal, galvanized, aluminum, tin, copper, asbestos, asphalt, urethane, polyester, styrofoam, fiberglass, built-up roofs, bonded roof gravel, rolled roofing, modified bitumen membranes, mineral surfaced roofing, stucco, concrete tiles, clay tiles, masonry tiles (flat or barrel), slate, slab and various other substrates. For residential, commercial and industrial applications.

SURFACE PREPARATION

Prepare surface by thoroughly pressure washing with a water and chlorine solution (unless previously done before applying primer coat) using at least 1500 P.S.I. to remove any loose, flaking or peeling coatings along with any dirt, grease, and other foreign materials, especially mold, mildew and algae. **THERMCOTE/A-10™** will resist mildew growth but will not kill mildew already on the surface. Apply only to a sound, well-prepared roof surface. Patch any holes, cracks, flashings, valleys, vents, etc. with **THERMAPATCH™ Waterproof Caulk and Sealant**. Tape and seal all seams with **POLYMESH™ Polyester Fabric Tape**. **METAL ROOFS:** Clean surface of all grease, oil and foreign matter before priming rusted areas with **OXIPRIME™ Red Iron Oxide Primer Sealer**. Check **THERMCOTE/A-10™** adhesion on galvanized or coated metal by applying it to a small area and evaluating after 48 hours. Metal must be slightly buffed without penetrating the coated or galvanized finish. Spot prime any penetrated areas with **OXIPRIME™** and then apply **ELASTOPRIME™ Tie bond Primer and Sealer** to the entire area.

APPLICATION PROCEDURE

Surface must be clean and dry and free of all moisture. Stir **THERMCOTE/A-10™** well before using. Do not thin, use product as is. Do not apply when temperatures are below 45°F or when humidity is very high. Do not apply when coating will be subjected to rain or heavy dew before it has had enough time to dry (approximately 4 to 6 hours). Drying time will vary depending on temperature, humidity and location. CAUTION: Applicators must wear dark sunglasses on sunny Days. Apply using brush, roller or

sprayer (1 GPM piston-type airless sprayer with a minimum tip size of .027). Spread uniformly. Wait at least 12 hours before applying second coat. Two coats are required for the warranty. Clean up immediately after use, while still wet, with warm soapy water.

PHYSICAL PROPERTIES

Reflectivity:82.7%+ white {slightly less when tinted}
Emissivity:93%+ white {in light earth tones or pastels}
FINISH:Flat
COLOR:White
FIRE Rating:Class "A" as per ASTM E84-01, NFPA 101Life Safety Code
FILM THICKNESS:
@ 100 sq.ft./gal/coat - 15-16 wet / 9 -10 dry mils
@ 80 sq.ft./gal/coat - 18-19 wet / 11 - 12 dry mils**
DRY TIME (@ 77°F):
TO TOUCH:4 to 6 Hours
TO RECOAT:12 Hours
FULL CURE:5 to 7 Days
VEHICLE TYPE:Copolymer Emulsion
SOLIDS by WEIGHT:62% +/- 2%
GALLON WEIGHT:11.9lbs. +/- 0.3lbs
SIZES: 1-Gal, 5-Gal, 55-Gal

APPROXIMATE COVERAGE

SPREAD RATE: 100 – 150 sq.ft./Gallon/per coat

NOTE: For 20 PLUS dry mil Film Thickness apply**
2 coats at 80 sq.ft./gal (see "Film Thickness", above)

**when applied at a minimum of 20 dry mil film thickness, product meets or exceeds the standards specified in Title 24, California Code of Regulations, Part 6, Section 118, "Mandatory Requirements for Cool Roofs" - Sub-Section (f) (2)

WARRANTY COMPLIANCE INFORMATION

The **THERMCOTE/A-10™** 12 YEAR LIMITED MATERIAL WARRANTY is for Product only and applies to chipping, cracking and peeling, only. Labor is not covered by this warranty. This product is not guaranteed to stop or prevent leaks; all leaks must be repaired prior to the application of any coating. The WARRANTY is available only when product is applied according to Manufacturer's Application Procedures and Strict Material Requirement Specifications and a Warranty Registration and a Job Completion Form is submitted to ProTek-USA within 90 days of completed coating application date.

This Warranty is available for well draining, SLOPED ROOFS ONLY. Slope of roof must be greater than 1" per 24" or an angle greater than 4 degrees, otherwise inquire about **ProTek-THERMCOTE/APW-5™ Limited Ponding Water Roof Coating**.

MIL THICKNESS: A required primer coat of **ELASTOPRIME™** or **OXIPRIME™** must be applied prior application of two coats of **THERMCOTE/A-10™** and MUST result in a minimum 20 mil total dry film thickness.

MINIMUM SPREAD REATES: **ELASTOPRIME™** or **OXIPRIME™** must be applied at no more than 150 sq.ft./gallon. **THERMCOTE/A-10™** must be applied at no more than 150 sq.ft./Gallon/per coat, resulting in an aggregate spread rate of 75 square feet per gallon for both coats.