

# technical information

#8631



Ceramic Reflective Insulating Coating Systems



## PROTEK-THERMCOTE ONE™ WATERPROOFING & INSULATING MATTE FINISH PROTECTIVE ROOF COATING

### PRODUCT DESCRIPTION

**THERMCOTE/ONE™** is a Matte Finish, Bright White, Acrylic Elastomeric, Reflective, Insulating Ceramic, Waterproof Coating, High Build **ONE COAT** Roof Coating. **THERMCOTE/ONE™** forms a thick rubber-like ceramic shield of protection that expands and contracts with varying hot and cold temperatures and resists thermal shock. **THERMCOTE/ONE™** offers superior mildew resistance, ceramic insulation and soundproofing combined with excellent adhesion, ultraviolet ray reflectivity and a beautiful finish. It is designed specifically as an insulating and energy saving coating that combats the destructive environmental forces of nature that extends the life of roofs. **THERMCOTE/ONE™** offers a 10 YEAR LIMITED WARRANTY for Roofs 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/ONE™** is recommended for well-drained, *Sloped* roof surfaces only. For flat roof applications or where ponding water is a problem use **ProTek-THERMCOTE/APW-5™** or **ProTek-THERMCOTE/APW-7™** Ponding Water Formula Roof Coatings. 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, concrete tiles, clay tiles, masonry tiles (flat or barrel), slate, slab and various other substrates. Product is for residential, commercial and industrial applications.

### SURFACE PREPARATION

A primer sealer coat of **ProTek-ELASTOPRIME™** *Elastomeric Adhesive Primer Sealer* is recommended prior to the application of **THERMCOTE/ONE™**, if roof was previously coated, leaks were present, or if the surface needs extra bonding. Rusted areas need to be primed with **ProTek-OXIPRIME™** *Water-based Red Iron Oxide Primer*. Prepare surface solution (unless previously done before primer coat) using at least 1500 P.S.I. to remove any previous coatings, dirt, grease, and other foreign materials, especially mold, mildew and algae. **THERMCOTE/ONE™** will resist mildew growth, but will not kill mildew already on the surface. Apply only to a sound, well-prepared roof surfaces. Patch any holes, cracks, flashing, valleys, vents, etc. with **ProTek-THERMAPATCH™** *Waterproof Caulk and Sealant*. Tape and seal all seams with **ProTek-POLYMESH™** *Polyester Fabric Tape*

### APPLICATION PROCEDURE

Stir **THERMCOTE/ONE™** well before using. Do not thin, use product as is. For proper adhesion to the primer coat, surface MUST be clean and dry and free of all moisture. 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 2 to 4 hours). Drying time will vary depending on temperature, humidity and location. Apply using brush, roller or sprayer (1 GPM piston-type airless sprayer with a minimum tip size of .027). Spread uniformly.

Clean up immediately after use, while still wet, with warm soapy water. **CAUTION:** Applicators must wear dark sunglasses on sunny days when applying white coating especially on roofs.

### PHYSICAL PROPERTIES

**Reflectivity:** ..... **81.7%+ white** {slightly less when tinted}  
**Emissivity:** ..... **93%+ white** {in light earth tones or pastels}  
**FINISH:** ..... Matte  
**COLOR:** ..... White  
**FIRE Rating:** ...Class "A" per ASTM E84-01, NFPA 101Life Safety Code  
**V.O.C.'s (averages)** ..... 0.50 lbs. /gal – 60g/liter  
**FILM THICKNESS:** @75 sf/gal/coat – 22-24 wet = 11 dry mils  
**DRY TIME (@ 77°F):**  
**TO TOUCH:** .....2 to 4 Hours  
**TO RECOAT:** .....12 Hours  
**FULL CURE:** .....5 to 7 Days

**VEHICLE TYPE:** .....Copolymer Emulsion  
**SOLIDS by WEIGHT:** .....64% +/- 2%  
**SOLIDS by VOLUME:** ..... 51% +/- 2%  
**GALLON WEIGHT:** .....11.7lbs. +/- 0.3lbs  
**SIZES:** ..... 1-Gal, 5-Gal, 55-Gal

### APPROXIMATE COVERAGE

SPREAD RATE per coat: ..... 50 - 75 sq.ft.

### WARRANTY COMPLIANCE INFORMATION:

**THERMCOTE/ONE™** 10 (Sloped Roofs) 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™** or **ThermCote/A-PW7™** Limited Ponding Water Roof Coating.

**MIL THICKNESS:** A primer sealer coat of **ELASTOPRIME™** or **OXIMPRIME™** is optional, but recommended. For Roof applications the primer coat (if applied) and one coat of **THERMCOTE/ONE™**, MUST result in a minimum 14 mil total dry film thickness.

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

**ProTek-US, LLC** 800-420-2998 Fax: 206-782-7532

Email: [fbf@protek-usa.com](mailto:fbf@protek-usa.com) Website: [www.protek-usa.com](http://www.protek-usa.com)