

# technical information

#1315



Ceramic Reflective Insulating Coating Systems



## ProTek - THERMCOTE/ IC™

Ceramic Reflective Insulating Elastomeric Acrylic Urethane

### INDUSTRIAL/COMMERCIAL INSULATING HIGH PERFORMANCE COATING

#### PRODUCT DESCRIPTION

**ProTek-THERMCOTE/IC™** is a bright white, 100% Acrylic Elastomeric with Urethane, superior insulating ceramic, Industrial Maintenance, Protective Coating. A water based, high build formula with a high volume of borosilicates that waterproofs, insulates, soundproofs, beautifies and protects. Innovative technology combines elastomeric acrylic resin with urethane resin to result in a waterproofing elastic film that expands and contracts with hot and cold temperatures, but also has good impact resistance and excellent chemical resistance. Product resists against thermal shock. A self-priming coating that forms a thick rubber-like ceramic shield of protection that actually becomes part of the substrate due to excellent adhesion and bonding. **ProTek-THERMCOTE/IC™** offers superior mildew resistance, corrosion resistance, ceramic insulation, soundproofing, ultraviolet ray reflectivity and a beautiful finish. This coating was designed specifically as an insulating, energy saving, industrial maintenance coating that will reduce costly maintenance, repairs and frequent repainting. **ProTek-THERMCOTE/IC™** offers a **15 YEAR LIMITED WARRANTY** when applied as per manufacturer's specifications.

#### PRODUCT USES

**ProTek-THERMCOTE/IC™** can be used on equipment, walls, pipes, holding tanks, etc. Possesses excellent adhesion on weathered wood, shakes, plywood, clapboard, primed metal, galvanized, primed synthetic or aluminum siding, tin, copper, asbestos, asphalt, urethane, polyester, polystyrene, styrofoam, fiberglass, clay, adobe, brick, stucco, slate, slab and various other substrates. Product for interior or exterior use on commercial and industrial applications.

#### SURFACE PREPARATION

Trenching, if applicable, is necessary to form a complete seal. Trench 4 to 6 inches around the perimeter of the structure. For proper adhesion it is essential that the surface be pressure washed at a minimum of 1500 P.S.I., using a water and chlorine solution to remove any loose, flaking or peeling paint along with any oil, grease, residues and especially mold, mildew and algae. Wire brush if necessary. **ProTek-THERMCOTE/IC™** will resist mildew growth, but will not kill mildew already on the surface! Apply only to a sound, well-prepared surface. If the surface remains chalky or is in poor condition after cleaning, a coat of **ProTek-CLEARPRIME™ Elastomeric Adhesive Wall Primer** is necessary. Rusted metal must be primed with **ProTek-RUSTCOTE™ One-Part Direct-to-Rust Polyurethane** or **ProTek-OXIPRIME™ Red Iron Oxide Corrosion Resistant Primer**. Patch any holes, cracks, seams, imperfections, etc., with **ProTek-THERMAPATCH™ Multi-purpose elastomeric caulk and sealant**.

#### APPLICATION PROCEDURE

Stir well before using. Use product as is, do not thin. Do not apply when temperatures are below 45° Fahrenheit or when humidity is very high. Do not apply when coating may be subjected to rain or heavy dew before it has had enough time to dry (approx. 4 - 6 hours). Drying time will vary depending upon temperature, humidity and location. Apply using brush, roller or sprayer (at least a 1 GPM piston- type airless with a minimum tip size of .027). Spread uniformly. Avoid wet buildup over 50 sq. ft. gal (may cause surface cracks). Wait at least 12 hours before applying a second coat. Two coats of **ProTek-THERMCOTE/IC™** are required for the **15 YEAR LIMITED WARRANTY**. Do not mix with other products or use water for dilution.

#### SAFETY CONSIDERATIONS

Do not take internally. If product comes in contact with eyes, flush immediately with water and contact a physician for medical attention. Avoid prolonged contact with skin or breathing of spray mist. For quickest removal from skin, wash with water before product dries. CAUTION: Applicators must wear dark sunglasses on sunny days.

**KEEP OUT OF REACH OF CHILDREN.**

#### PHYSICAL PROPERTIES

**Reflectivity: 84.2%+ white** (slightly less when tinted in **Emissivity: 93%+ white** light earth tones or pastels)

**Color:** White (tintable)

**Finish:** Matte

**Vehicle Type:** Copolymer Emulsion

**Elongation:** 100% (cured sample)

**Cures by:** Evaporation

**Solids by Weight:** 58% +/-2%

**Viscosity:** 100-120 KU

**Fire Resistance:** Qualifies for Class A, 1 or I

**Weight:** 10.5 lb./- .3lbs. /gal (wet)

**Dry Time:** To Touch: 4 - 6 Hours

@ 77°F To Recoat: 12 Hours

Full Cure: 5 - 7 Days

**Open Pot life:** 6-8 hours at 77°F/55% RH

**Shelf life:** 1 year, when stored at 40°- 80°F

**Sizes:** 1 Gal., 5 Gal., 55 Gal.

**Film thickness:** 100 sq. ft/gal = 12-14 wet mils, = 7- 8.5 dry mils/coat

**Clean up:** Soap and water

**Storage:** Store between 40°- 80°F

**Shipping ID:** Non-Flammable, Non Toxic liquid.

**Disposal of Unused Product:** Dispose of unused product in EPA approved non-hazardous waste processing facility. Do not pour into sewer or storm drains.

**APPROXIMATE COVERAGE:** 2 coats, each @ 100 to 200 sq.ft./gal.

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