

**Product Specification Sheet**  
**ThermaCote®**



Physical Properties		
<b>Appearance</b> Creamy Liquid	<b>Emissivity</b> ASTM C-1371 0.88 initial 0.86 3 year	<b>Solids by Volume</b> 80% ± 4
<b>Adhesion-Cross Hatch</b> 100%	<b>Flame Spread</b> ANSI/UL 723 0	<b>Specific Gravity</b> 0.594
<b>Application Method</b> Spray Applied	<b>Flash Point</b> No Flash to Boil	<b>Tensile Strength (lb/inch<sup>2</sup>)</b> 66.7%
<b>Color</b> Bone White in Natural Form	<b>Maximum Surface Application Temp.</b> 300°F/149°C	<b>Thickness</b> 0.020
<b>Coverage (@20 mil)</b> Add 20% for Corrugated Surface 50ft <sup>2</sup> /gallon	<b>Moisture Vapor Barrier</b> ASTM D-1633 0.0755	<b>VOC</b> 0.0099 lbs/gallon 1.186 g/l
<b>Density (g/cm<sup>3</sup>) @ 24 Mil Dried Film</b> 0.41	<b>pH</b> 8.70-9.30	<b>Weight of Non-Volatiles</b> 43%
<b>Drying Time</b> 1 to 2 Hours at 70°F with Humidity <60%	<b>Reflectivity</b> ASTM C-1549 0.83 initial 0.75 3 year	<b>Weight Per Gallon</b> 5 lbs.
<b>Elongation (Elasticity)</b> ASTM D-562 65%	<b>Smoke Developed</b> ANSI/UL 723 5	

**Description**

ThermaCote®: Saves energy by boosting the performance level of insulation in Commercial and Residential Buildings. When used as the Primary Thermal Envelope (PTE), ThermaCote® seals the structure and minimizes Solar/Radiant Heat Gain. ThermaCote® guards insulation against moisture, thermal transfer, thermal bridging, and conduction; it also allows entrapped moisture to escape all of which provides an environment closer replicating the lab conditions where insulation is assigned its "R" value. ThermaCote® is a single stage spray applied water based/acrylic material (paint-like) which incorporates Ceramic Technology. Its ease of application for new or retrofit construction allows for the performance enhancement of insulation, HVAC Duct Work, Wall Systems, and Roof Systems for all types of substrates including metal, brick, cement block, concrete, wood, or sheet rock. ThermaCote® is MAS Certified Green and UL® Classified as a Class A Fire Retardant with a 0 (zero) Flame Spread. ThermaCote® accelerates the "Return on Investment" (ROI) and expands the sustainability of interior applications for the life of the structure. ThermaCote® is a superior reflective and thermal barrier which gives the additional benefit of protecting roofing materials from further deterioration and extending the life of a roof. Lowering built-up heat due to solar heat gain results in lower roof temperatures and reduced cooling costs.

**Application**

Best results will be realized if product is applied using a commercial quality airless paint sprayer (see EQUIPMENT SPEC). Roof applications are best with two coats of 15-20 mils each for total +/- 35 mil DFT (dry film thickness). Allow first coat to dry. DO NOT APPLY if heavy dew and or rain are expected within 24 hours and temperatures are less than 50° F. First coat should be applied on all seams, joints, corners, and should be approximately 15 to 20 mils. Second coat should be applied perpendicular to first coat. Apply the product based on NRCA guidelines. Use of proper gear is mandatory, eyewear and respirator as well as sun block is recommended to be used during roof applications. Respirators and proper ventilation required for interior applications. If specific colors are desired please contact ThermaCote, Inc. Regarding roof applications, greater energy savings are realized when product is not tinted. Interior applications normally require one +/- 20 mil coat. ThermaCote® is ideal as a primer or topcoat, or all in one.

Primer not needed in most cases\*

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### Surface Preparation

Surface needs to be thoroughly clean and dry; free of dirt, dust, oil, peeling paint and other foreign material. Thoroughly pressure wash area and repair all leaks and cracks. ThermaCote® can be used to repair small cracks and leaks. Rust should be cleaned with a wire brush; use suitable metal primer-sealer where significant amounts of Rust are identified is also recommended. Product can be applied on surfaces from 50° F up to 300° F.

### Equipment

Professional quality sprayer such as or similar to GRACO 7900. 3000 + psi , at least 2 GPM and tip size based on the application.

### Clean Up and Storage

Use warm soapy water to clean tools and spatters.  
DO NOT store in direct sun light, Protect from freezing.

### Warranty and Disclaimer

The technical information contained herein is true and accurate at the date of issuance and can be changed without notice. Before ordering or specifying ThermaCote contact ThermaCote Inc. to verify the information. Liability, if any, is limited to replacement of product. Specially trained contractors in accordance with ThermaCote, Inc. can provide warranty.

**Roofs: 10 years to Life of the structure (Ask about our Maintenance Program)**  
**Interior walls, ceilings: Life of the Structure**

### Warnings

For applications that involve, scraping, sanding, and or removing old paint please contact the National Lead Information Hotline 1-800-424-LEAD or a Lead Certified Contractor.