

ThermaCote®

SPRAY-APPLIED THERMAL BARRIER WATERPROOFING, PRIMER & TOP COAT, AII-IN-ONE APPLICATION

ADVANCED CERAMIC TECHNOLOGY SAVES ENERGY SUPERIOR CORROSION PROTECTION FOR COMMERCIAL, RESIDENTIAL, EXTERIOR AND INTERIOR

THERMACOTE CLIENTS

United States Army Coca-Cola BASF ARAMCO ABB Samsung C&T Exxon Shell NASA Johnson Controls United States Navy Nestle Northrop Grumman Princess Cruise Lines Dole, Chiquita Budweiser Racing Dubai Airports Company SIKORSKY State Farm Insurance Thermo King AMMROC **Emirates Airlines** Baker & Hughes Hartsfield International Airport UAE Air Force GAC Logistics Habitat for Humanity United States Coast Guard Kharafi National Atlanta Gas Light Company Helmerich & Payne Kempinski Hotel International Drilling Co Ingalls Shipbuilding University of Georgia University of Mississippi Margaritaville Beach Hotel Moorehouse College Alabama State Department of Education HCA Midwest Medical Research Center Walker Construction XERVON

RATINGS AND ACCREDITATIONS

Intertek ISO 9001:2008 UL® Classified USGBC Member Abu Dhabi Quality & Conformity Council Better Business Bureau Member CRRC Rated Product MAS Certified Green US Department of Commerce Collaborative for High Performance Schools ENERGY STAR Certified Roof Product



tested, approved

EU ISO 9869 ENERGY MEASUREMENTS

Electricity Reduced By 38%

Imperial Unit Variable R Value to 11 Variable U Value to 0.09 Btu/(h ft^{2°} F) *Report Available By Request SI Units R Value up to 1.87 m²K/W U Value up to 0.53 W/m²K

ISO 9001:2008 QUALITY MANAGEMENT SYSTEM



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH INDOOR AIR QUALITY

Adds No Harmful VOCs To The Indoor Or Outdoor Environment





invention and innovation

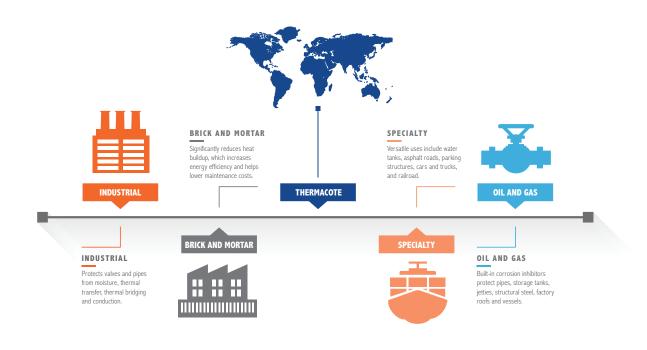
ThermaCote, Inc. was founded in 1985 to manufacture a durable and energy saving thermal barrier for the construction industry. During the 1970s foam insulation products were used without any real knowledge or understanding about VOCs (volatile organic compounds) and off-gassing chemical fumes within the interior environment. It was decided that the most environmental and economical products could be developed and insulating coatings were the primary objective. The search for better materials led to the creation of a lightweight concrete block that floated on water while maintaining its structural qualities, and this discovery led to the invention of ThermaCote.

Advanced spray-applied ceramic technology with ultra-low VOCs. Seals the envelope of commercial, residential, interior and exterior structures and saves energy.

Thermal Barrier Air Permanence Breathability Emissivity Corrosion Inhibitor Ultra Lightweight Ultra Low VOCs Waterproof Fire Retardant Elasticity Adhesion

SERIOUS PERFORMANCE

ThermaCote is a high-performance thermal barrier coating for commercial, residential, exterior, and interior applications. The advanced ceramic technology conserves energy, looks just like flat latex paint when dry, and has ultra-low VOCs (5.3 grams/liter). ThermaCote spray-applied coating is Certified Green to California's standard (DHS 01350) for indoor air quality in classrooms and offices, an ENERGY STAR qualified product, and is also a CRRC (Cool Roof Rating Council) "Rated" product. With built-in corrosion protection, ThermaCote is the perfect primer or topcoat on new or existing sheetrock, wood, glass, plastic, concrete or steel projects, and helps seal the envelope of any structure. A UL® Classified product with a 0 (zero) Flame spread, ThermaCote is the professional's choice.





the spray-applied thermal barrier

ThermaCote is a paint-like single component spray-applied water-based acrylic material that incorporates Ceramic Technology. Its ease of application for new or retrofit construction allows for the performance enhancement of insulation of Floors, 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 is a superior sprayapplied reflective thermal barrier which in its simplest definition can be described as an 'energy saving paint'. When dry, ThermaCote looks just like any flat latex paint, yet it helps to significantly conserve energy. Technically, ThermaCote is a high performance thermal barrier, which incorporates ceramic technology to prevent the transfer of heat (or cold). It also has corrosion protection and control properties in addition to condensation control.

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 this provides an environment close to replicating the lab conditions where insulation is assigned its "R" value.

ThermaCote is sustainable as it lowers the energy consumption of a structure, prolongs the life of the building materials and adds no harmful VOCs to the indoor or outdoor environment during installation, service or dismantling and recycling.

ThermaCote is a high performance thermal barrier, which incorporates ceramic technology to prevent the transfer of heat or cold and minimise solar and radiant heat gain.



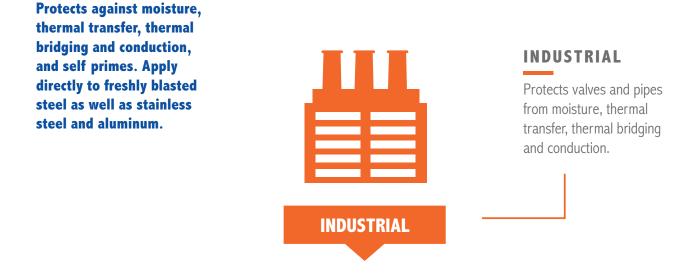
ThermaCote incorporates advanced ceramic technology to prevent the transfer of heat and cold and save energy and maintenance costs in industrial applications.



WAREHOUSES, HVAC, CHILLERS, STEEL, ALUMINUM, STEAM LINES, STEEL BEAMS, FRAMING, STEEL CONTAINERS, SILOS, PIPES, VALVES

ThermaCote is the perfect solution for insulating valves and pipes in an industrial line. For hot applications ThermaCote can be applied while the unit is operational and at temperatures to 149C/300F and with special training up to 210C/410F. Since ThermaCote incorporates corrosion inhibitors, no primer is necessary in most cases.

Industrial applications utilizing ThermaCote are applied in approximately 0.25mm coats, allowing for complete drying before recoating until proper thickness or 'build' is achieved. Without complete drying between coats, moisture encapsulation will ultimately result in product failure. Cryogenic applications must be performed at ambient temperature and fully dried and cured before returning to cold service.





brick and mortar

ROOF AND WALL SYSTEMS, BRICK, CEMENT BLOCK, CONCRETE, WOOD, SHEETROCK, TILES, ASPHALT

On exterior surfaces ThermaCote is a weather barrier, providing additional insulation and a breathability component that allows entrapped moisture to escape. With ThermaCote a building or structure will perform closer to its assigned "R" value throughout its life. On interior surfaces ThermaCote acts as an air barrier sealing leakage and entrapping cold or warm air. This significantly reduces the run time for air conditioners or heaters, produces energy savings, and reduced maintenance costs.

ThermaCote reflective and emissivity attributes will significantly reduce heat build up, increase energy efficiency and reduce maintenance costs. ThermaCote can be used as a waterproofing solution, primer & top coat. ThermaCote will aid in insulation efficiency, reduce application time and costs. ThermaCote will also remove the need to regularly repaint.

The product is non-toxic, environmentally friendly, and approved under the California Department of Public Health's standard for indoor air quality in classrooms and offices.





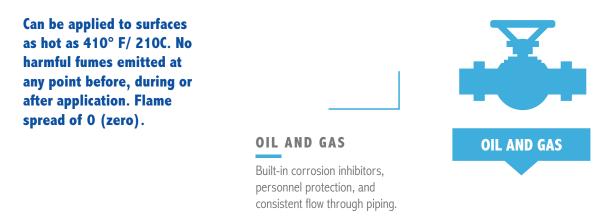
oil and gas

PIPES, STORAGE TANKS, JETTIES, VESSELS, STRUCTURAL STEEL, FACTORY ROOFS

ThermaCote was the first fluid applied water based coating used to combat CUI (corrosion under insulation) in the mid-80s. With built in corrosion inhibitors ThermaCote can protect fresh blasted steel from 'flash' or surface rust by applying it as a primer & topcoat all in one product. Areas that already have corrosion issues or that are extremely prone will require an additional primer prior to application. ThermaCote has been used in North America for decades to prevent heat loss on industrial pipe systems (oil pipelines) which carry materials that must maintain temperatures at or above 325F/161.5C.

ThermaCote is a product that protects substrates, and personnel from contact burns. As well, this product delivers all of the insulation needed in most cases for piping, tanks and other vessels for temperatures up to 410F/210C in continuous operation while systems are hot.

LNG Gas 'balls' (storage tanks) and all other related equipment can benefit from the lowered surface temperatures which will remain closer to the ambient temperature conditions with ThermaCote. A simple 1-1.5mm thickness is all that is needed to control temperature 'heat gain'. ThermaCote on a substrate controls the temperatures inside a LNG gas system during storage and transport as well.







ThermaCote is half the weight of water, has low shrinkage and seals air leaks.

COLD ROOMS, WATER TANKS, ROADS, POOL DECKS, TRUCKS, CARS/RACE CARS, BUSES, CAMPERS/RVs, FEED CONTAINERS, RAILROAD CARS, BARNS/STABLES, CEMENT DRUMS, INTERIOR BOAT HULLS, PLASTIC, GLASS, SKYLIGHTS

ThermaCote is versatile and has many different uses, from industrial applications, interior and exterior of buildings and structures, and specialty applications including parking structures, asphalt roadways, refrigeration vehicles, etc. ThermaCote will adhere to all and any other coatings with no special abrading or primers necessary to achieve adhesion.

Rooftop water storage tanks are another speciality application as these surfaces become heated when exposed to light and can have excessive heat build up. Once the sun sets, this heat build up is slowly released back into the surrounding air and environment. This contributes to elevated temperatures in urban areas and increases the demand use of energy to cool surrounding buildings and structures. ThermaCote has excellent traction. The product has been tested to globally recognized traction standards; Australian pool deck, McDonald's slip standard and the international runway standard.



Product Data Sheet : Therma Cote®

Révision :31/05/2017 Annule et remplace toute fiche antérieure

CHARACTERISTIC	DESCRIPTION		
Appearance	Creamy Liquid		
Color	Bone White		
	Bolle White	Teintes du Nuancier ThermaCote France	
Coverage (0,5mm par application)	1,30 m ² /litre (24,7m ² par pot)	Le pouvoir de couverture et le rendement peuvent varier suivant les caractéristiques du support	
Density	ASTM D-792	0,41	(g/cm ³)
	EN ISO 2811-1:2002	0,622	g/ml
Drying Time	1 à 2 Heu	res à 21° C et humidité <60%	
Flash Point	No Flash to Boil		
Maximum Surface Application Temperature	149° C / 300° F		
рН	8,45-9,50		
Solids by Volume	80% ±4		
Specific Gravity	0,594		
Thickness	0,5 mm		
	EN ISO 2808:2007	323,8	pm
Viscosity	2,000-10,000 cps	utilisant un viscosimètre de Brookfield avec une broche #3 à 12 tours/minute	
	COV Max du produit :	5.3g/L	
voc	Classement Européen :	Catégorie A / Sous-catégorie	e c
	Valeur limite UE de C.O.V. :	Pour sous-catégorie c : 40g/	
Weight of Non-Volatiles	43%		-
Determination of non- volatile-matter content	EN ISO 3251:2008	54,62%	Min.45
Weight per liter	0,600 kg/ Litre	01,0270	10111.10
		RESULTATS	
	NORME	RESULTA	TS
Thermal conductivity: λ (lambda)	NORME EN 12667:2002	RESULTA 0,0345 W/r	
(lambda)		0,0345 W/r	mK
(lambda) In-situ Energy measurement	EN 12667:2002 EU ISO 9869	0,0345 W/r Energy Reduced	mK I by 38%
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Elongation (Elasticity)	ASTM D-882	65%	
Emissivity	ASTM C-1371	0,88 initiale (0,86 à 3 ans)	
Normal Emittance	ASTM E-408	.94	
Pull Adhesion (Method B- Concrete)	ASTM D-4541	1,447 kPa	209,9 psi
Essai de traction (Béton)	EN ISO 4624:2003	0,78 Mpa	
Pull Adhesion (Method B- Plywood)	ASTM D-4541	1,348 kPa	195,6 psi
Essai de quadrillage	EN ISO 2409:2007	1	
Essai de pliage sur mandrin cylindrique	EN ISO 1519:2003	Aucune fissure ou séparation du support	
Réflectivity	ASTM C-1549	0,83 Initiale	(0,75 à 3 ans)
Solar Reflectance Index (SRI)	ASTM E-1980	104 Initiale	(77 à 3 ans)
Tensile Strength (lb/in2)	ASTM D-882	66,7	
Water Resistance	AATCC 127	Aucune fuite d'eau à 55 cm	
Determination of resistance to humidity (intermittent condensation) Métal + Concrete	ISO 11503:1997	64 cycles, aucun dommage sur le revêtement	
change of temperature	EN 60068-2-14:2001	64 cycles, aucun dommage sur le revêtement	
Determination of the effect of heat	EN ISO 3248:2001	7 heures à 125°C: Aucun changement	
Determination of resistance to liquids	EN ISO 2812-1:2007	24 Heures dans un bain de gasoil: aucun changement	
Rapid-deformation (impact resistance) tests	EN ISO 6272-1:2004	Support métallique,Poid:1kg – 100CmPoid:2Kg - 100 cmSupport béton, Poids:1kg100 cm	
Exposure of coatings to artificial weathering	EN ISO 11507:2007	Cycle: 8 Heures UV à la température de 60 (± 3) °C; 4 Heures de condensation à 50 (± 3)°C;	100 Cycles: léger jaunissement
	NORME	RESULTATS	
Permeability Water Vapour	EN ISO 7783	Sd = 1,0m	Norme
Capillary absorption and Permeability to water	EN 1062-3	0,011 W	Européenne harmonisée :
Adhesion Strength by pull of test	EN 1542	1,23Mpa	EN 1504-2
Thermal Cycling w/o De-Icing Salt Impact	EN 13687-3	1,11 Mpa	
Carbon Dioxide Permeability		59 (Sd > 50 m)	
Dangerous substances	comply with 5.4		

Certifications et Tests:



ThermaCote® SPRAY-APPLIED THERMAL BARRIER

Reduces Heat Gain: Saves Energy

Easy Care: Reduces Maintenance Costs

Non-Toxic Easy to Apply: Eliminates Health Risks of Other Insulation Material

