

# ThermaCote

## THERMAL INSULATION COATING

### DESCRIPTION

ThermaCote® is a high-performance thermal barrier using ceramic technology to prevent heat and cold transfer.

### BASIC USES

- ThermaCote® is used on walls and roofs.
- Residential, commercial, and industrial sectors.
- Suitable for all types of surfaces including metal, brick, cement, concrete (including slab), facing stone, old adherent paint, plaster and derivatives, wood and derivatives, bituminous, steel deck, waterproof membranes, fibre cement tiles, slates, PU foam, rigid PVC, etc.
- ThermaCote® is used for industrial protection: silos, containers, refrigeration cells, insulation...

### PROPERTIES

- Flexible, semi-thick coating for protection and/or decoration.
- High reflectivity: Approved Cool Roof & Cool Wall.
- Eligible for Energy Savings Certificates.
- New construction or renovation.
- All-season effectiveness.
- Optimises the insulation performance of buildings, homes, and industrial components.
- Improves thermal comfort.
- ThermaCote® adheres to any surface.



<b>FINISH</b> Matt - Tintable	<b>FORMAT</b> 19L	<b>USAGE</b> Interior / Exterior	<b>APPLICATION TOOLS</b> AirLess spray only
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### TECHNICAL CHARACTERISTICS

<b>Classification</b>	NF T 36-005: Family 1 - Class 7b2. NF P 84-403: Class D3 and I1 NF EN 1062: European EVWA Classification: G3E4V2W2A1 / G3E5V2W2A1
<b>Binder</b>	Specific acrylic
<b>Solvent Type</b>	Water
<b>Odour</b>	Neutral
<b>Specific Gravity</b>	0.62 +/-0.05
<b>Solid Content</b>	54.6% +/-2%
<b>Viscosity</b>	20-100 Poise
<b>Gloss Level @ 60°</b>	Matt
<b>Appearance</b>	Semi-thick coating - Smooth.
<b>Colours</b>	White and colours from the ThermaCote® French colour chart (Contact Us).
<b>Flash point</b>	Not classified as flammable
<b>Shelf Life</b>	12 months in original unopened packaging
<b>Application Tools</b>	Airless Spray only
<b>Dilution</b>	Ready to use. Do not dilute
<b>Coverage</b>	Approximately 1.3m <sup>2</sup> /L at 500µm. Coverage may vary according to substrate and quality of application.
<b>Drying Times @ 21°C and 60% RH</b>	Dry: 2h   Recoat: 12 to 24 hours Climatic conditions and application settings can significantly alter drying times.
<b>Thermal Conductivity</b>	$\lambda = 0.0345$ W/mK according to EN 12667:2002
<b>In situ measurement of energy consumption</b>	Energy consumption reduced for air conditioning by 38% according to EU ISO 9869 Energy consumption reduced for heating by 26% according to EU ISO 9869
<b>Thermal Resistance</b>	R = 1.49m <sup>2</sup> K/W for 500µm according to EU ISO 9869 R = 1.87m <sup>2</sup> K/W for 1mm to EU ISO 9869
<b>Thermal Emissivity</b>	88% according to ASTM C-1371
<b>Solar reflectance</b>	83% according to ASTM C-1549
<b>Solar Reflectance Index (SRI) According to ASTM E-1980-11</b>	104 when new   100 when aged to ISO 16474-3:2020 after 4000 hours
<b>Air Permeability</b>	0.0001 L/s.m <sup>2</sup> at 75 Pa according to ASTM E-2178
<b>Water Vapour Permeability</b>	Sd = 1.69m or 3.617 perms exterior to interior. Sd = 0.87 m or 6.779 perms inside to outside.
<b>Gross Heat Of Combustion(QPCS)</b>	1,91 MJ/m <sup>2</sup> according to NF EN ISO 1716   maintain Fire resistance classification
<b>Clean-up</b>	Water. Ideally warm, soapy water.
<b>VOC</b>	EU limit value for this product (cat. A/c): 40g/l (2010). This product contains max. 5.3g/L
<b>Storage</b>	Store in a dry place between 5°C and 40°C. Keep from freezing, high temperatures and direct sunlight (prolonged exposure to direct sunlight may cause 'hardening', rendering the product unusable).