

PRODUCT NAME

Thermo-Cote™ Wall Coat

Insulating, Reflective & Flexible Wall Coating



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Insulates & Reflects sun rays
- Conserves Energy
- Permanently Seals Moving Cracks
- Totally Waterproofs
- Excellent Elongation & Recovery at Low Temperatures
- Continuous Elongation (built into the “molecular chain”)
- Long Term Adhesion & Durability
- Fully Breathable
- Highly Resistant to Carbon Dioxide Diffusion
- Exceptionally UV Light Resistant
- Dirt Resistant = Stays Clean
- Excellent Color Stability + Unlimited Color Selection
- Easy Application = Spray or Roll
- Low Sensitivity to Substrate Moisture Content
- VOC Compliant & Not Regulated by WHIMS or TDG
- Mold Resistant

PRODUCT DESCRIPTION

Basic Use

Thermo-Cote Wall Coat is an insulating, high performance, flexible waterproofing wall coating for protection of new and restoration of cracked and deteriorated concrete, masonry and stucco. It is also suitable for galvanized steel using an appropriate primer.

Thermo-Cote Wall Coat bridges over and seals substrate cracks due to its high elongation at ambient and low temperatures.

Thermo-Cote Wall Coat is highly resistant to airborne pollutants, making it an ideal protective coating for industrial applications. It is breathable (releases water vapor from the substrate) but at the same time waterproof.

Composition and Materials

Thermo-Cote Wall Coat is a water borne coating incorporating ceramic micro-spheres and internally cross-linked acrylic polymer. It delivers excellent thermal insulating properties, high reflectivity, superior weathering, no chalking, no leaching, color stability and very high resistance to water ponding.

Limitations

Do not apply when rain is imminent. Surface & ambient temperature must not be less than 7°C (45°F) or above 32°C (90°F) during, and 24 hours after the application. Fresh (green) concrete or cement plaster must cure for at least ten (10) days prior to the application of Thermo-Cote Wall Coat. Must not freeze. Reflectivity decreases when colors are introduced.

Health and Safety

Thermo-Cote Wall Coat is nontoxic and nonflammable. If contact with skin occurs, wash with water. Harmful if digested. Keep the product out of reach of children. **FOR INDUSTRIAL USE ONLY.** Consult MSDS for additional information.

Color

A wide variety of colors are available. The color suitability and pricing must be established by the manufacturer before an order can be processed. Every effort is made to fill each order using the same batch number, but different batch numbers of the same color may be occasionally used to complete an order. It is the sole responsibility of the applicator to make certain that only one batch number is used on any one side of the building. Different batch numbers should not be used on the same wall unless they are mixed together to ensure total color uniformity.

Packaging

Thermo-Cote Wall Coat is a liquid coating packaged in 20 L (5.3 USG) pails.

Yield

Primer #300: 6.0-8.0 m²/ L (244-326 ft²/ USG).

Thermo-Cote Wall Coat: 3.5-4.5 m²/ L @ 0.22-0.29 mm (143-183 ft²/ USG @ 9-11 mils) thickness per one (1) coat.

The actual coverage will depend on surface roughness, application technique and the thickness applied. The applicator must carry out a sample application to determine the actual coverage for the given substrate and application thickness.

Storage and Transportation

Shelf life in unopened containers is two years. Store in temperatures above 4°C (40°F). Must not freeze. Packaged 36 pails per pallet.

TECHNICAL DATA

Viscosity (Ford Cup)	110±10 KU
Specific Density	1.47 g/ cm ³
Solids (by weight)	73.2 %
Solids % by volume	63.5 %
Volatile	34 %
VOC	34 g/L

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9

09830 Elastomeric Coating
099723 Concrete and Masonry Coating

Elongation at break (ASTM D2370)	at +23°C at -21°C	300 % 100 %
Adhesion (pull-off)		
Before freeze/thaw		> 2 MPa
After freeze/thaw		>1.5 MPa
Water vapor transmission (ASTM E-96 B)		23 perms
Water Penetration Resistance	passes 160 km/hr (98 mph) wind-driven rain test over concrete block	
Accelerated Weathering (ASTM G 53-69) Fluorescent UV - Condensation Type, 2,500 hours	Excellent color retention and resistance to chalking	

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed.

Surface Preparation

Use pressure water (at least 2-3,000 psi), or sandblast as required to remove all dirt, efflorescence, loose particles, paint, cement scaling and other foreign matter which can interfere with the adhesion of the coating.

Primers

Primer #300, tinted to the same color as *Thermo-Cote*, must be always used.

Crack Treatment

Small cracks have to be pre-filled by brushing *Thermo-Cote* into the crack before the overall application. Cracks larger than 1 mm (40 mills) must be routed out and filled with a flexible caulking before the application of *Thermo-Cote*.

Mixing

Do not add water to *Thermo-Cote Roof*. Mix thoroughly, using a power drill and paint mixing paddle, before application.

Application

Short, medium or long nap roller can be used to apply *Thermo-Cote*. The type of the roller and the application technique will determine the appearance. **Keep a wet edge.** *Thermo-Cote* can also be spray-applied using an airless sprayer.

In some cases, due to the porosity and roughness of the substrate, two coats of *Thermo-Cote* may be necessary. Apply the second coat as soon as the first coat is dry to touch, or within 48 hours.

Curing

Thermo-Cote will cure sufficiently by air drying in 12-24 hours, depending on temperature and relative humidity.

Clean Up

Clean tools and equipment immediately after use with water. For dry material use MEK or Xylol.

AVAILABILITY AND COST

Thermo-Cote is available worldwide. Contact Gemite for the name of the local Representative / Distributor & pricing. When ordering, specify color. The color suitability and pricing must be established by the manufacturer before order can be processed.

MAINTENANCE

None required. *Thermo-Cote* is self-cleaning. Surface dirt and dust can be easily cleaned using a detergent and water.

WARRANTY

A limited twelve (12) months Material Replacement Warranty is available. For details, contact the manufacturer.

TECHNICAL SERVICE

For an advice on suitability of *Thermo-Cote* for a specific application, specification assistance and application instructions, contact the Technical Service by e-mail: techinfo@gemite.com, or by phone USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The wall coating will be *Thermo-Cote Wall*, a water borne, acrylic polymer, internally cross-linked resin system [specify color] as manufactured by Gemite Products Inc., [USA 888-443-6483] [Canada 905 672-2020]. It shall be applied in accordance with manufacturer's current guide specifications and application instructions. Contact Gemite Products Inc. for specification assistance and application instructions.