TEMP-COAT®
THE POWER TO INSULATE AND PROTECT

Product Data Page

I PRODUCTS

TEMP-COAT 101®

II Properties of TEMP-COAT®

Percent Solids by Volume: (+/-) 83%

Wet Weight: 5.25 lb/gal

Shipping Weight per 5gal pail: 28.5 lbs

Dry Weight: 0.8 oz/ft² @ 20 mils
4.0 oz/ft² @ 100 mils

Theoretical Coverage @ 20 mils:
66.6 ft²/gallon

Expected Coverage:
Please see application guide or contact technical rep.

VOC Content: 0.0099 expressed per EPA Method 24 (weight fraction)

Thermal Value:
$k_{(eqv)}$= 0.23 (Btu·in)/(hr·ft²·°F)

The operating temperature range for **TEMP-COAT®** can be from –80°F(-62C) to 350°F (+177C)*. It can be applied to temperatures ranging from 45°F to 350°F**. On extremely warm to hot surfaces, beginning coats must be thin to avoid blistering.

III DESCRIPTION

TEMP-COAT® is a general purpose insulation which comes in liquid form.

TEMP-COAT® liquid ceramic insulation is a thin film that performs extremely well on piping, tanks, air and heat duct work, exposed water pipes, oxygen lines, steam lines, chilled water lines, cryogenics, vehicle/transportation and has many other uses. **TEMP-COAT®** provides an inexpensive alternative to the high cost of industrial insulations. Because it physically adheres to the surface that it is insulating, it significantly reduces (CUI) corrosion and rust formations found under conventional insulations.

Make Up: **TEMP-COAT®** is a complete mixture of various hollow silica and ceramic beads immersed in a high quality latex base with acrylic binders. This combination of materials makes the product extremely light weight and pliable, therefore, it expands and contracts with the surface to which it is applied.

TEMP-COAT® can be tinted virtually any medium to pastel color.

IV Benefits of TEMP-COAT®

- Curbs Corrosion Under Insulation (CUI) by adhering to the surface it insulates
- Ability to insulate at relatively thin film compared to conventional insulations
- Does not require jacketing
- Easily repaired
- Ease of inspection
- Can be applied on surfaces up to 350ºF without disruption of operations
- Will not absorb moisture or liquids
- Will not harbor bacteria, rodents or insects
- Eliminates waste
- Ease of Application

V. APPLICATION

Surface Preparation

Apply **TEMP-COAT®** on any clean, dry substrate which is free from oil, grease, wax or dirt and assuming the existing coating or surface is stable. A minimum of SP-2/SP-3 or equivalent. A sufficient amount of primer on all surfaces prone to rust and to prevent bleed through is recommended.

Mixing

A rectangular sheet rock mud paddle is needed to blend the product.*

Equipment

Spray equipment requirement: Pump capable of producing 2 to 3 gpm at 3000psi (28:1 ratio airless sprayer or larger) *

Our air assisted **"Quik-Gun"** is designed for small or hard to reach applications. This gun operates on 80 psi air supply.*

Brush and roller may be used and is generally recommended for small areas. Brush or roller should be dampened prior to use. This will allow the product to release. The first coat will be rough in texture. This will allow subsequent coats to grab and release. Subsequent coats may be smoothed by pulling the product in one direction with a damp brush or roller.

Application Conditions:

Surface temperature should be 45°F and rising.*

Product should be applied in 20 mil coats, allowing the product to dry to the touch prior to successive coats. Total cure time is 24 hours under normal conditions.*

Clean-Up

TEMP-COAT® is a water based acrylic product. Clean up immediately after use with soap and water. *Caution:* Use drop cloths and necessary protection to pre- vent damage from drips or overspray under windy conditions.*

***Please see our Application/Instruction Manual.**

Distributed By:

TEMP-COAT®
THE POWER TO INSULATE AND PROTECT

REDI-SPEC Page

VII TEST RESULTS

THERMAL PROPERTIES

Independent Thermal Evaluation: Thermal conductivity value determined by comparative testing.
$k_{(eqv)}$= 0.23 (Btu·in)/(hr·ft²·°F)

Thermal properties directly relate to the thickness of product required to insualte a given substrate.

Rooftop Installation: 15 mil thickness will reduce under-roof temperature by up to 20° F. Results could vary with application.

CERTIFIED LAB & ASTM RESULTS

SOLAR REFLECTANCE RATING TESTED TO	87.7% Average
EMITTANCE RATING	85%

FLAMMABILITY

FLAME SPREAD	5	ASTM E-84
SMOKE DEVELOPED	5	ASTM E-84
TOXICITY	0	ASTM E-84

MECHANICAL PROPERTIES

CROSS HATCH ADHESION	100%	ASTM D-3359
TENSILE STRENGTH (LB/IN^2)	66.7	ASTM D-882
ELONGATION	65%	ASTM D-882

PHYSICAL PROPERTIES

FUNGAL GROWTH	NONE	MIL-STD-810
VAPOR TRANSMISSION	0.635	ASTM E96, Meth.
E ACCELERATED AGING	2000HR. PASSSED	ASTM G-53
DENSITY (g/cm) @ 24C DRIED FILM	0.41	ASTM D- 792
VOLUME NON-VOLATILES	43%	
VOLUME DRIED FILM	83% (+/-2)	
Ph	8.7	
SPECIFIC GRAVITYY	0.69	
HEAVY METALS	NONE DETECTED	
CHLROIDES - MERCURY	NONE DETECTED	

VII OTHER FEATURES:

The product, in addition to its outstanding insulating qualities and superior adhesion, has low flame spread, is impact and abrasion resistant, is flexible and assists in protecting coated surfaces from wind driven rain, cold-heat cycling, chemical vapors and mildew. These qualities make it the standard in ceramic coatings.

VIII SHIPPING AND SUPPLY METHOD

TEMP-COAT® Brand Products are available FOB shipping point or from a distributor near you. Call 1-800-950-9958 for availability in your area and price information.

IX WARRANTY

Limited Warranty: TEMP-COAT® Brand Products, LLC. warrants TEMP-COAT® as an insulation under normal use and installation conditions for a period of 10 years from the date of application. Insul-All™ 8 years. Complete warranty and installation information is available upon request.

XI MSDS INFORMATION

All ingredients are TSCA registered and are not harmful. For Material Safety Data Information, contact TEMP-COAT® Brand Products, LLC
1-800-950-9958
E-mail INFO@TEMPCOAT.COM.

XI PRICE

Contact your local distributor or TEMP-COAT® Brand Products, LLC for cost information.

XII SURFACES

TEMP-COAT® can be applied to any of the following clean, dry surfaces.

Carbon Steel Stainless Steel Chrome Galvanize Aluminum Iron Fiberglass Brass Cloth Copper Stone Slate Stainless Tar Vinyl Glass Polyurethane Foam Plexi-glass Cardboard Paper Magnesium Plastic Glass Pipe Plastics Masonite Primed Surfaces Asbestos Fiberboard Painted Surfaces Wood Granulated Roof Shingles …and many more

DO NOT ALLOW TO FREEZE