

TEMP-COAT Brand Products
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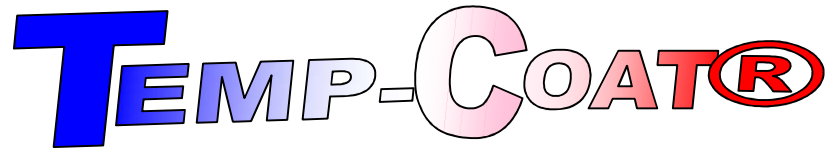


Underwriters
Laboratories

Introducing **TEMP-COAT** Thermal Insulation

Presented by:

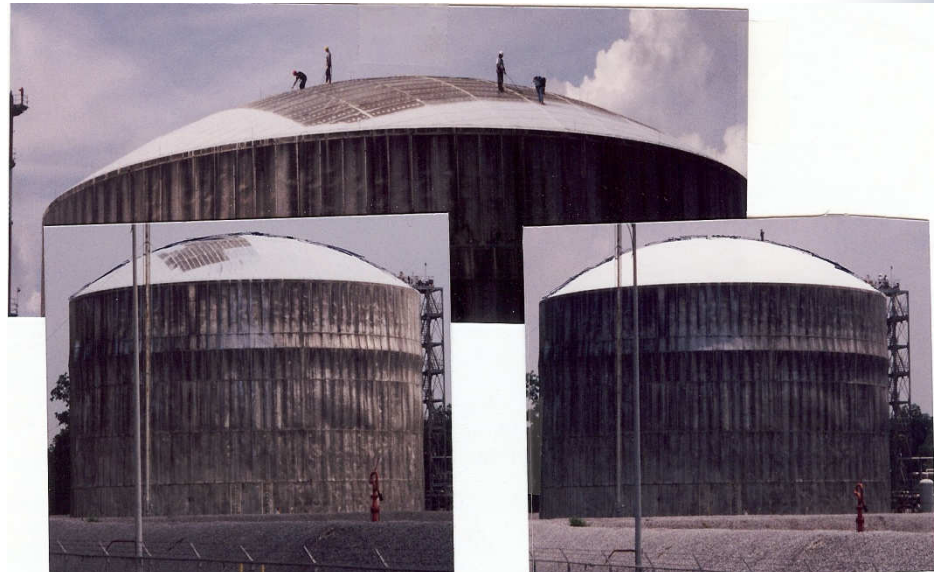
TEMP-COAT®



Highlights

- 25 Years of Successful Installation (with NO warranty issues)
- Non Toxic – (Ph – 8.2) - Approved by FDA and EPA
- Application with no need for shut-down or process interruption between -80 F and 350 F
- Quick drying - 1/5 liquid by volume
- Light weight – 5.9lbs per gallon (In Pail)
- Acrylic Latex Binders for long life and UV Resistance
- Inhibits mold and mildew growth
- High Quality with 10 year Manufacturer Warranty
- Approved by Multiple Independent Testers
- Extremely stable in hostile conditions between -30 F to +500 F
- Color to tint product may be added in country by distributor
- Remarkable Return on Investment
- Installed by local distributors or local contractor following certification

- **A Ceramic Insulation that is a Thin Thermal and Condensation Barrier used as :**
 - Heat and Cold Temp Control
 - Personnel Protection
 - Anti-Sweat Control
 - Acoustics Control
- **And Can be applied to:**
 - Roofs, Deck, Bulkheads and Ceilings
 - Bilges, Tanks, ISO containers
 - HVAC ducts, Wire-ways, Pipelines and valves
- **Thermal Effects**
 - Keqv Value of 0.23 (BTU-in)/(hr-ft²·°F) according to certified, independent tests
 - Product can be applied between -80 and +500 degrees F
- **Flame Retardant**
 - LOW FLAME SPREAD of 5 (ASTM E-84) (0 is concrete and 100 is red oak flooring)
 - Smoke produced is Non-Toxic



TEMP-COAT® Application Facts

Desired Mil Thickness	Sq Feet per Gallon	Sq Meters per Gallon
240	3.75	.35
200	4.25	.40
180	5.0	.46
160	5.5	.51
140	6.5	.60
120	7.5	.70
100	8.5	.79
80	12.0	1.11
60	15.0	1.86
40	20.0	2.97
30	30.0	3.72
20	40.0	5.57
15	60.0	5.57

A Mil is 1/1000 of an inch. 15 Mils is equal to 7 sheets of writing paper. A Mil is NOT a Millimeter.

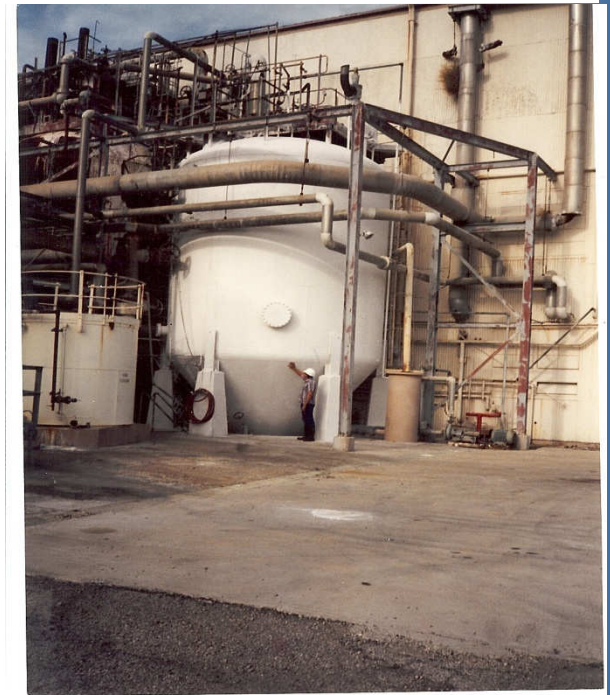
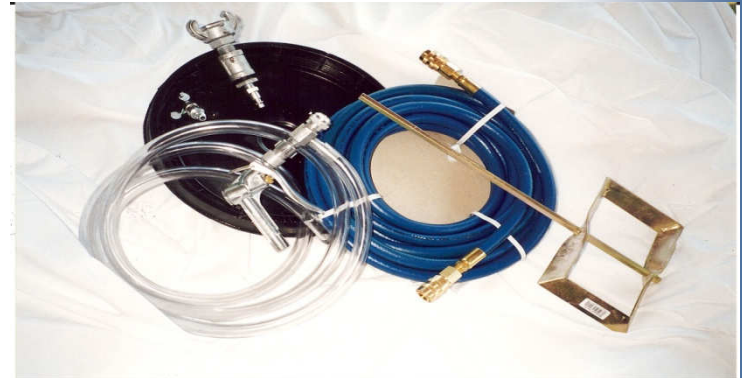
- 15 mil to 20 mil per coat
- Performed by local certified applicators
- Surface application temperatures 45° F and rising (7° C) to 350° F (177° C)
- Uninhibited airless spray application between 15 and 30 mils on flat surfaces, with weather and conditions acceptable, a team of two persons can apply 550 SF per hour using conventional airless spray equipment
- Flash time under normal dry conditions is two (2) hours or less - much faster on warm to hot surfaces

°F of Substrate	°C of Substrate	Rec.Thickness in Mils (1/1000s of an inch)	Rec.Thickness in Millimeters
400**	204	210	5
350*	177	160	4
300	149	130	3
250	121	110	2.5
200	93	80	2
32	0	20	0.5
0	-18	40	1
-30	-34	50	1.2
-45	-40	60	1.5

*May disbond on at temps over 350F, TEMP-COAT HT may be used as base

**Temperatures great that 350F require

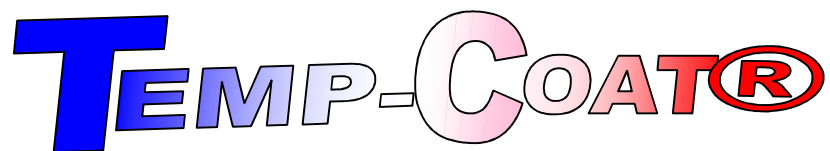
- Product is 83% Solids By Volume
- Surface Preparation: SP2 Hand Tool Cleaning as defined by Steel Structures Paint Council
- Product is mixed utilized a square sheet rock mud paddle
- Generally installed with airless spray equipment rated at 2 to 3 gallons per minute at 3000 psi
- Small applications and repairs may be achieved by use of the Quick Gun or brush and roller as needed
- TEMP-COAT BRAND PRODUCTS is a full service oriented company. We provide technical assistance from the beginning to end of your project to ensure its success.



TEMP-COAT 101

Product Re-Coat Times(Based on 20 mil application)

Ambient Temperatures (°F)	Humidity (%)					H O U R S
	10 - 20	20 - 40	40-60	70	>80	
45 - 55	1.5	2	3	4	5	
55 - 65	1.25	1.5	2.5	3.5	4	
65 - 75	0.75	1	2	3	3.5	
75 - 85	0.75	1	1.5	2	3	
85 -95	0.5	0.75	0.75	1	1	
95 - 105	0.5	0.75	0.75	0.75	1	
105 - 110	0.5	0.5	0.75	0.75	0.75	



Temp. Differential

TEMP-COAT 101 Temperature Differential Guidelines

	Mils								
	20	40	60	80	100	120	140	160	180
*430	290	265	240	190	170	160	155	150	148
*400	278	240	210	170	160	155	153	148	144
370	255	237	192	158	150	148	145	145	141
340	225	215	170	162	142	138	134	130	130
280	200	190	155	120	110	106	106	102	
250	165	160	130	100	95	85			
220	155	140	128	96	90	80			
160	115	95	85						
130	80	75							

This document considers Industrial Applications representing gasses and fluids under pressure. It does not take into consideration reflectivity.

THIS CHART IS DEVELOPED FROM INFORMATION GATHERED IN TWO INDEPENDENT TEST STUDIES.

THE EXTRAPOLATED DATA PRESENTED ABOVE WAS CREATED UNDER IDEAL LAB CONDITIONS AT 70°F.

IN PLANT OR EXTERIOR CONDITIONS RESULTS MAY VARY BASED ON AMBIENT CONDITONS.

*** PLEASE CONSULT TEMP-COAT BRAND PRODUCTS PRIOR TO UTILIZING PRODUCT AT TEMPERATURES ABOVE 350°F**

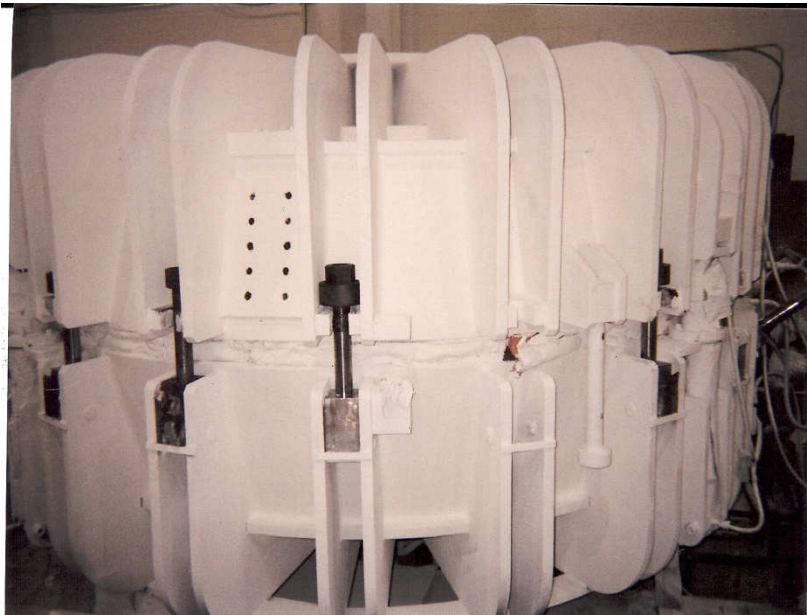
- Reduces loss due to heating and cooling (sludge build up)
- Protects personnel
- Eliminates over 85% of solar heat transfer - highly reflective
- Adheres to hot and cold surfaces (-80° F(-66.2C) to +350° F(176.7C) and can insulate surfaces to 500° F
- Can be applied to surfaces up to 350F without disrupting operations
- Does not require jacketing allowing for visual inspection
- No seams to leak and cause corrosion issues
- Not prone to wind, hail or snow load damage
- Adheres directly to surface (eliminating moisture between insulation and surface causing scale and corrosion (CUI)
- Little to no maintenance and easy to use and repair
- Impervious to water, salt water and most chemicals
- Reduces or stops expansion and contraction, which causes roof damage

Advantages

Petroleum and Chemical



- Creates a better work environment, increasing productivity
- Provides a constant, uninterrupted thermal barrier regardless of the length or size of the job
- Extremely cost effective
- Can be tinted most light to medium colors by manufacturer or in country
- Environmentally Friendly: Contains no VOC's or Heavy Metals



TEMP-COAT®

Quick Gun Application

For Small Areas and Repairs



A SMALL COMPRESSOR
AND THE QUIK GUN
DOES THE JOB @ 80 PSI*



MIX THE PRODUCT
FOLLOWING THE SIMPLE
INSTRUCTIONS



LOAD THE HOSE HOLDING
THE QUIK GUN AT BUCKET
LEVEL



HOLDING THE QUIK GUN 14"
FROM THE SURFACE TO BE
COATED WILL PRODUCE A 4"
TO 5" PATTERN



HOLDING GUN CLOSER TO
THE SURFACE WILL PRODUCE
A SMALLER PATTERN



KEEP TEMP-COAT® MIXED
AS YOU SPRAY BY STIRRING
WITH A FLAT STICK OR
PADDLE



KEEP TEMP-COAT® MIXED
AS YOU SPRAY BY STIRRING
WITH A FLAT STICK OR
PADDLE



IF YOU MUST STOP SPRAYING
EMPTY THE GUN AND HOSE AS
INSTRUCTED AND WASH THE
GUN THOROUGHLY WITH
FRESH WATER.

Application can be performed using spray gun, roller or brush.

TEMP-COAT Testing and Approval

ASTM Tests Satisfied...

- C-177 (Thermo-Conductivity)
- D-792 (Density/Weight)
- G-53 (Accelerated Aging)
- B-117 (Salt Fog Testing)
- D-3359 (Cross Hatch Adhesion)
- D-882 (Tensile Strength)
- E-84 (Flame Spread)
- E-1461-92 (Thermal Diffusivity)
- E-1269 (Specific Heat Capacity)

All Test Results are independently certified.

Approved by...

- Department of Energy – Energy Star2003
- Dept. of Homeland Sec. – U.S. Coast Guard
- NAVSEA Systems Command 2003
- SAVSEA Systems Command 2000
- Food and Drug Administration
- Department of Agriculture
- Lloyd's of London (SOLAS)
- Purdue Univ.
- Thermo physical Properties Research Lab
- American Shipbuilders

- **Production and Transport**

- Coca-Cola
- SIKORSKY Helicopter
- Newport News Shipbuilding
- Marathon Coach
- Dupont
- Dow
- LITTON Shipbuilding
- Cytec Industries
- Dole, Chiquita Food Refrigerated Trucks
- Princess Cruise Lines
- Lloyds of London / State Farm Insurance
- Safe Haven Enterprises, Inc.
- Dixie Carriers
- Delmonte
- And Many Others

- **Energy and Petroleum**

- Shell Oil Offshore
- ENTERGY Electric Power Company
- Chevron
- Exxon
- Pemex
- Arco

- **Government**

- U.S. Coast Guard
- U.S. Navy / U.S. Army / U.S. Marines
- U.S. Department of Agriculture / FDA
- U.S. Department of Energy – “Energy Star”
- Several U.S. State Governments
- Japanese Navy



TEMP-COAT Certifications



Lloyd's Register – FIRE Approval Certificate # SAS/F96/640

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➤ GOVERNMENT

- U.S. Coast Guard
- U.S. Navy
- U.S. Army
- National Guard Bureau
- U.S. Gov't Equipment & Facilities
- State of Louisiana-Dept. of Highways
- Arkansas Dept. of Human Services

➤ COMMERCIAL

- Safe Haven Enterprise, Inc.
- Dole, Chiquita & F. Christiana & Co.
Food Refrigerated Trucks
- Princess Cruise Lines
- M/S Grandeur of the Seas Cruise Liner
- State Farm Insurance

APPROVED BY :

- ↓ Dept. of Energy – Energy Star 2003
- ↓ Dept. of Homeland Security - U.S. Coast Guard
- ↓ NAVSEA Systems Command 2003
- ↓ NAVAIR Systems Command 2000
- ↓ Food and Drug Administration
- ↓ Department of Agriculture

➤ INDUSTRY

- SIKORSKY Helicopter
- ENTERGY Electric Power Co.
- Cytec Industries
- Shell Oil Offshore
- Helmerich & Payne International Drilling Co.
- Schouest
- GTS Finnjet
- Dixie Carriers
- LITTON Ingalls Shipbuilding
- Newport News Shipbuilding
- K & S Diesel Service
- Hollywood Marine
- Apex Towing
- Marathon Coach
- Horizontal Drilling
- Sam Woo Che Company, LTD.
- POLMIL, LTD
- UCAR Pipeline Inc.
- Nat'l Electric Energy Company (Puerto Cortez)
- Auburn Waste Oil Reprocessing Laboratory (Auburn University)

Anti-Sweat

Heat & Cold Temp Control

Acoustics

Roofs / Decks / Bulkheads / Ceilings

Bilges / Tanks / ISO Containers

HVAC ducts / Wire-ways / Piping / Valves



Chevron Offshore (Angola)



Chevron (California)









