

SUPER THERM

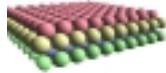


R20 INSULATION COATING

- 70% of Japan Marketshare
- NASA Technology 2000 program
- Resists Fire & Chemicals
- Blocks 99.5% infrared heat
- Spray - Roll - Brush
- Interior or Exterior Application



SUPER THERM MultiCeramics© technology provides corrosion protection and "plating" that reduces surfaces maintenance for 3 to 4 times the normal life span of any application, it saves energy, provides longer life to properties and surfaces. Unlike the alternative fiberglass or foams, it poses no health hazards and offers greater comfort by outperforming all others under all conditions. **SUPER THERM** is the ultimate insulation material.



LETTERS of RECOMMENDATIONS



"It is quite obvious that the paint is doing a great job in reducing the transfer of the sun's radiant heat." "The statistics obtained by our tests should be the proof needed to persuade those of lesser faith"

Frank Hofstatter, Industrial Engineer
Sacramento Army Depot

"The metal surfaces went from 130 degrees to 90 degrees. We are stopping the heat at the source, not trying to exhaust an attic full of hot air."

Roger Kuntz
AG Enterprises.



"We've decided to use SUPER THERM exclusively in our Model Block Programs". "We're painting an additional 9 houses with Super Therm this year."

Walter Wright
President Chesney Park N.I.A.
Topeka, KS.



"This year we are going on our 4th year using Super Therm as a top coat for our urethane roofs." "We have not had any trouble with either product. In my opinion, these are the best coatings on the market."

Jack Ayers
Rainbow roofing Systems
Dodge City, KS

"The reduction in temperature due to Super Therm has eliminated produce losses which of course was my prime concern, the added fuel savings being a bonus."

Bob Fountain Transport
Brisbane, Australia

"Travelodge had our pool deck resurfaced with Super Therm coating." "If we were to be asked what my most positive experience with this product was, I would have to say that it would be the cool comfort to bare feet."

Bethany Willet, General Manager
Travelodge Lawrence, KS

POLYSTYRENE FOAM

CERAMIC PAINTS

CELLULOSE FILLERS

FIBERGLASS

SUPER THERM

*R20 two 10 mil coats (Interior App.)

**R19 one 10 mil coat (Exterior App.)

68% Sound Blockage

MultiCeramics© Technology

One of Energy Star Best overall

California Cool Roof Program

NASA Approved

Works on Interior/Exterior

Class "A" Rated "0" Flame Spread

Passed 2000 hrs Salt spray

USDA Approved

Moisture resistant

Blocks 99.5% of Infrared

Resists Mold & Mildew

K Factor (less is better)

25 Years residential life expectancy

International Codes Council Approved

GSA - Listed US Government

| | 10" | 8" | 5.5" |
|---------------------------------------|------|------|------|
| *R20 two 10 mil coats (Interior App.) | ✓ | ✗ | ✗ |
| **R19 one 10 mil coat (Exterior App.) | ✓ | ✗ | ✗ |
| 68% Sound Blockage | ✓ | ✓ | ✓ |
| MultiCeramics© Technology | ✓ | ✗ | ✗ |
| One of Energy Star Best overall | ✓ | ✗ | ✗ |
| California Cool Roof Program | ✓ | — | — |
| NASA Approved | ✓ | — | — |
| Works on Interior/Exterior | ✓ | — | — |
| Class "A" Rated "0" Flame Spread | ✓ | ✗ | ✗ |
| Passed 2000 hrs Salt spray | ✓ | ✗ | ✗ |
| USDA Approved | ✓ | — | — |
| Moisture resistant | ✓ | ✗ | ✗ |
| Blocks 99.5% of Infrared | ✓ | — | — |
| Resists Mold & Mildew | ✓ | ✗ | ✗ |
| K Factor (less is better) | 0.10 | 0.29 | 0.31 |
| 25 Years residential life expectancy | ✓ | — | — |
| International Codes Council Approved | ✓ | ✓ | ✓ |
| GSA - Listed US Government | ✓ | ✓ | ✓ |

✓ = Approved

— = Partial approval

✗ = Not Possible

*R20 (Interior Application) supported by ASTM C236 Guarded Hot Box Test with two coats at 10 dry mils / 250 microns each.

**R19 (Exterior Application) supported by ASTM C-236 Guarded Hot Box Test, ASTM E-1461-92 Thermal Diffusivity & ASTM E-1269 Specific Heat tests, additional R9 comes from "reflectivity" factor of SUPER THERM (92% of sunlight and 99.5% of Infrared radiation).

SUPER THERM APPLICATION



TINT TO LIGHT COLORS ONLY
Use high quality Water Base Dye at a 150% Ratio.

| | |
|--------------------------------------|--|
| Applied Rate | All kinds: 100 sq.ft./gal. / 2.5 sqm. litre |
| Film Thickness | |
| Wet | All kinds: 16 mils / 400 microns |
| Dry | All kinds: 9-10 mils / 225-250 microns |
| Recommended Application Temperatures | Over 50F /10C degrees - Best -72F / 22C Not over 194F / 90C degrees |
| Application Required | 10 mils, two coats if the surface is to be overcoated with another dark coating |
| Dry Times | 1 hr to touch @ 22C. deg. 2 hrs to recoat |
| Curing Times | 14-21 days |
| Remarks | More dry time required if in very damp climate. Be sure to remove all filters from spray equipment to prevent sifting of ceramic particles. Apply with side-to-side, up-and-down strokes for even coverage. |

Outperformed fiberglass by 40% on ASTM C236 test.

K value of 0.10 results from ASTM 1269 / 1461-92

At 20 mils Outperforms 10 inches of fiberglass insulation.

SUPER THERM has 92% Sunshine Reflective Ratio.

SUPER THERM can reduce sound by 68%.

NASA "Class A" fire "0" smoke and flame spread.

Passed 2000 hour salt spray.

USDA approved and nontoxic.

UV weathering test. (UV stable).

B.O.C.A approved for interior and exterior insulation.

Wal-mart rated SUPER THERM #1.

DNV approval for IMO use on all world wide vessels.

Blocks 99.5 of infrared heat radiation as per JIS A 5759 test.

IMO - International Marine Organization.

Coast Guard Approved.

Energy Star rated SUPER THERM one of the best overall.

SUPER THERM saves Sony Corporation 80% of energy usage in 3 level building every year.

CALL FOR ENGINEERING SUPPORT 310-505-2137

SUPER THERM PASSED

ASTM G 53 - ASTM E 96 - ASTM D 522 - ASTM D 412

ASTM D1653 - ASTM E 84-89 - ASTM E 119 - ASTM C 177

ASTM C 411 - ASTM E 1269 - ASTM E 1461-92-

ASTME1269 - ASTM D 1654 - ASTM D 3274 - ASTM D 4060

ASTM E 903-96 - ASTM 1918 - ASTM C 236

BOCA Sections - 723.2 - 723.2 - 803.2

IMC Section 604.3

NASA NHB 8060.1B/C Test 1 - NHB 8060.1C Test 7

ENERGY STAR Program - JIS 5759 - USDA - CCTT

SUPER THERM **K** value (0.101) expressed in Lambda.

Lambda $K \times 0.144 \text{ W/mK}$

Lambda 0.101 $\times 0.144$

Lambda 0.015 W/mK

Based upon 0.0149" thickness.

European Lambda statistics on materials as tested for 1" (2.5cm) minimum thickness:.

| | | |
|--------------------------|------------|--------------|
| Polyurethane Foam | 0.028 W/mK | per 2.5cm |
| Polystyrene board | 0.035 W/mK | " |
| Polystyrene expanded | 0.040 W/mK | " |
| Mineral Wool/ Fiberglass | 0.040 W/mK | " |
| Perlite | 0.055 W/mK | " |
| SUPER THERM | 0.015 W/mK | per 0.025 cm |

LESS IS BETTER



65% SOLIDS
VOC 67Grams/Liter
pH: 8.5 - 9.0

OTHER AVAILABLE PRODUCTS

| | |
|------------------|-----------------------------------|
| SP2001F | Three hours FIRE Proofing |
| HOT PIPE | Extreme Heat Insulation |
| SUPER THERM | R19 Insulation |
| EPOXOTHERM | Under Water Insulation |
| RUSTGRIP | Bio Hazard Encapsulator |
| ENAMO GRIP | Anti Graffiti Coating |
| MOIST METAL GRIP | Under Water Encapsulator |
| TOTAL SEAL | Potable Water Concrete Sealant |
| NON SKID | Non Skid Surface Coating |
| INNER SEAL | Water & Chemical Concrete Sealant |
| LINING-KOTE 6000 | Chemical Concrete Liner |
| SUPERBASE HS | Elastomeric Primer/Sealer |
| SUNSHIELD 2000 | Reflective Ceramic Coating |
| ULTRACIDE | Water Base Insecticide |
| ULTRASECT | Latex Insecticide Coating |