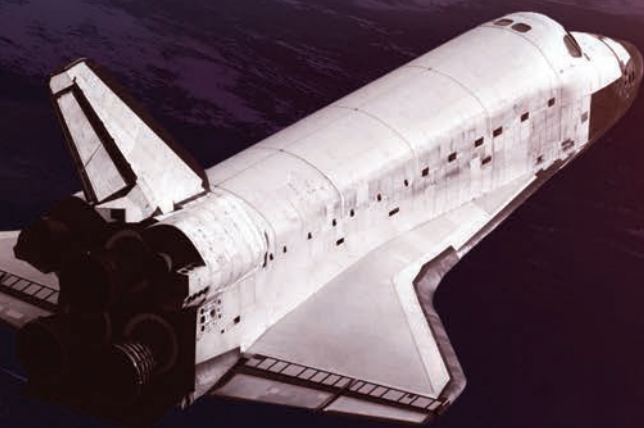


ECO FRIENDLY • BLOCKS HEAT • FIREPROOF • WATER BASED • LASTS 20+ YEARS • SAFE

World's Heat Neutraliser!

Revolutionary Multi-ceramic Thermal Insulation Coating



Blocks 96.1% Total Solar Heat



ISO 9001 CERTIFIED

Super Therm® = True Heat Block!

Originally developed with NASA in 1989, Super Therm® blocks 96.1% of the thermal heat load including 99.5% of infrared heat which is the "key" to controlling thermal flows. This reduces energy consumption, costs, CO₂ and improves personal safety!



DISCOVER
MORE!



SUPER THERM®
Heat Neutralizer...Ceramics Thermal Coating™

Super Therm® will Future Proof! Blocking the World's Heat!

The stakes are high and we know how it feels to struggle with rising power costs and CO₂ emissions. In fact, this is a challenge facing the entire planet. **Super Therm®** has proven globally their advanced ceramics coating blocks solar thermal heat.

This ultimately gives you multiple benefits including a return on your investment while protecting you, your assets and budget. For over 30 years, clients globally have reduced their struggle with heat and energy costs in many different and extreme environmental challenges.

The Cost of Energy Use

Constant efforts go into saving money on power bills, energy efficient appliances, switching off air-conditioning or finding the best solar options. Not too mention dealing with the pure discomfort of heat entering buildings, creating a hot box that are expensive to cool.

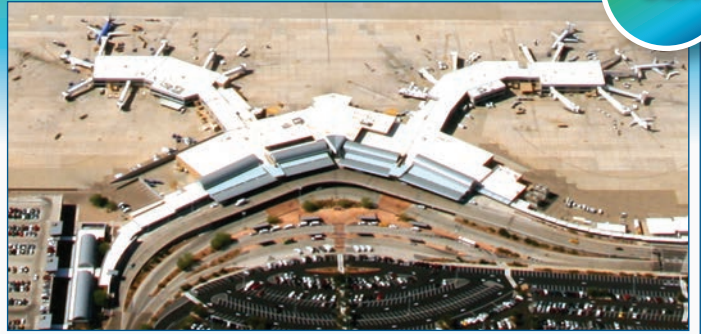
There's also the unseen cost of thermal shock (expansion and contraction of your roof) causing long-term roof damage...the blindspot in the solar heat battle is keeping the heat out by blocking as much UV, Visual and Infrared heat energy as possible at the envelope of the building or structure. **At just 0.25mm thick Super Therm® is the answer!**

Blocking heat load is the "key" to controlling heat flow in or out of structures ...

Super Therm® does just that!

22% Energy Reduction Tuscon Airport

USA



Super Therm's unique differences:

- ✓ Australia's highest ceramic coating TSR 96.1%
- ✓ 20-50% Energy Reduction in field testing
- ✓ Works while dirty
- ✓ Lasts over 20 years - no cracking, flaking or peeling
- ✓ Single coat application (no primer)
- ✓ Easy to apply (follow instructions)
- ✓ Safe and water based
- ✓ Fireproof class 'A' rating - Won't Spread Flames!
- ✓ Only thermal block coating developed with NASA
- ✓ Proven globally for over 30+ years
- ✓ Blocks 50-68% sound

Application to Nissan Factory	May	June
Before Super Therm® applied	3,767 kW	5,647 kW
After Super Therm® applied	519 kW	1,896 kW
TOTAL KW Reduction	87%	67%

Source & Photo: Daiko Shokai, Japan Distributor

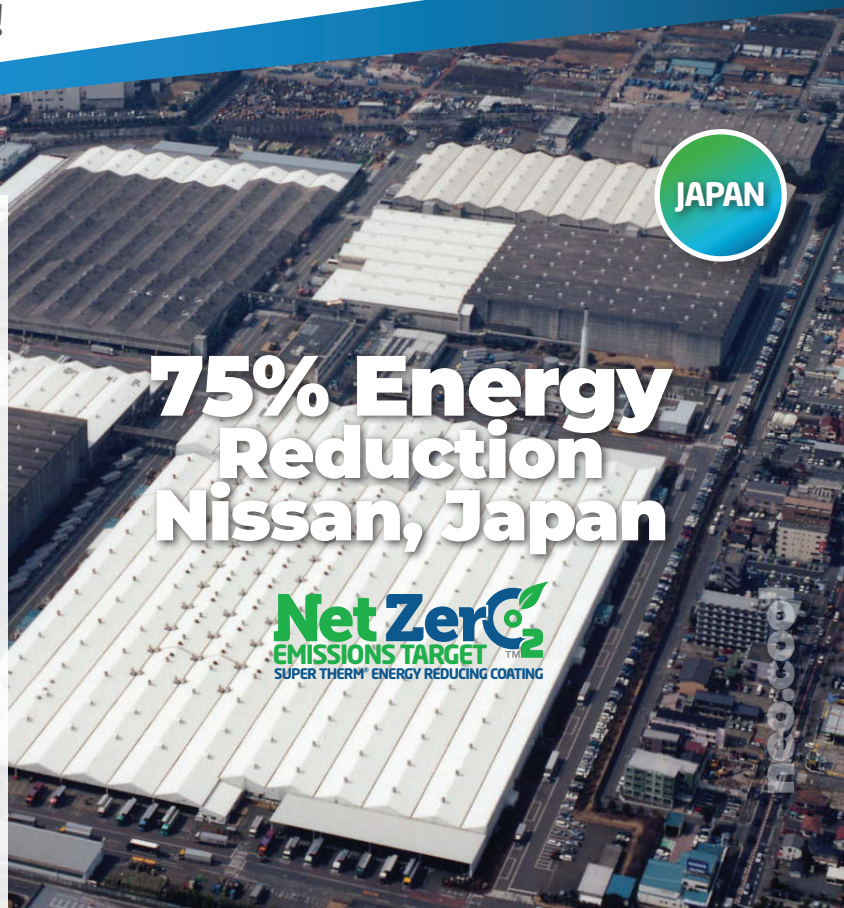
5 Super Therm® Benefits

1. **World's only ceramic coating that blocks 96.1% of total solar** (radiational) heat; Infrared 99.5%, UV 99% & Visual 92% energy!
2. **Reduce potentially thousands in energy costs;** many clients showing ROI within 3 years
3. **Proven to last over 30 years**
4. **Prevents thermal shock** protecting assets, **reduces fuel consumption, running engine costs, refrigeration and maintenance.**
5. **Environmentally friendly,** safe and simple water based application approved by the EPA. No fire spread or smoke (NASA Tested).

JAPAN

75% Energy Reduction Nissan, Japan

Net Zero
EMISSIONS TARGET
SUPER THERM™ ENERGY REDUCING COATING



Proven for Over 30 Years Worldwide to Block Heat Load!

Formulated four ceramic compounds and globally tested to block 96.1% of Infrared, UV and Visible heat energy!



J.E. Pritchett, President of Superior Products International II. Inc., USA is a leading, global ceramic researcher and coatings specialist. He worked with NASA engineers for six years on **Super Therm's** original ceramic heat block coating development from 1989 to 1995.

He also spoke at the **NASA New Technologies Symposium** in Chicago as a ceramics expert where he leads his field worldwide. This expertise has been invested into one of the world's truly outstanding ceramic coatings amongst other tough SPI Coatings solutions including thermal insulation.

Super Therm® is the result as a robust, durable, long lasting and fire rated solar heat block coating!

What's Super Therm made of?

Unlike any other, **Super Therm®** contains four natural ceramic compounds from over 4,000+. Three match each of the solar radiation waves of UV, Infrared and Visual to block their solar heat and the fourth has a density 50 times lighter than paper so the heat cannot physically load into the surface keeping you safe. This high emissivity reduces heat conduction...therefore very little heat load!

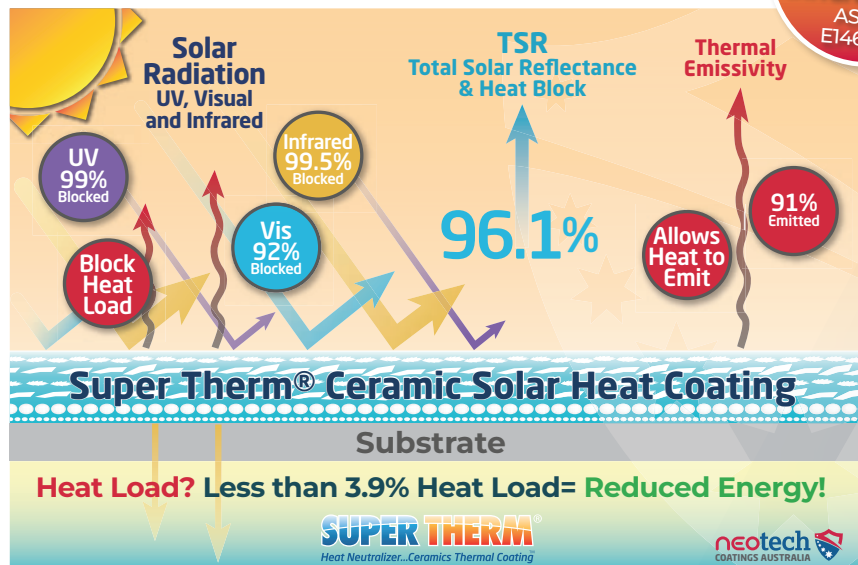
Along with a combination of high-performance formulated urethanes, elastomeric acrylics and resin additives in a water-borne formula, **Super Therm®** is highly durable, tough and flexible.



Super Therm® emissivity ceramics at 1200°C

The ceramic coating that blocks heat load keeping you cool and safe!

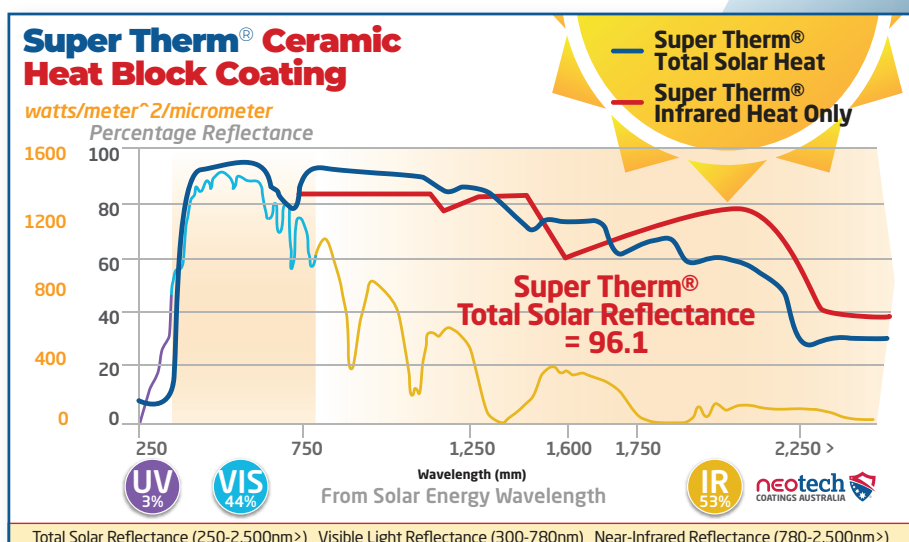
BLOCKS 99.5% Infrared Heat
ASTM E1461-92



Super Therm® isn't a heat reflective paint but a thermal insulation coating. It was tested with a very low "solar absorption" of 0.09 and a very high "infrared blocking" of 99.5%.

The combination of the low solar absorption and emissivity of 0.91 to release the surface heat with a reflectivity of 92% for visual light (short wave) and 99% for UV radiation gives it a total average of 96.1% Total Solar Reflectance.

This makes **Super Therm®** the market leading coating to be applied over substrates to prevent heat gain into the surface while eliminating the heat from the surface super quick for both internal and external use.



Super Therm® reduces energy with successful results!

Global Projects = Environmental Solutions

SUPER THERM®
Heat Neutralizer...Ceramics Thermal Coating

Net Zero
EMISSIONS TARGET ²
SUPER THERM® ENERGY REDUCING COATING



20-50% energy reduction

Industry testing with the Florida Energy Conservation Assistance Program after applying **Super Therm®** recorded moisture block, air flow reduction as well as a **20-30% energy reduction on homes** (hot humid climates) and in Denver (dry climates) as well as steel containers in Texas finding **46-52% energy reduction!**



40% air conditioning reduction

Super Therm® was applied to 34,800m² of the **Tucson International Airport**, it saw a **22% reduction in total energy usage** (lighting, elevators, food facilities, etc) and a **40% reduction in air conditioning costs.**[^]



55% energy reduction

Cumming New Life Church, Cumming, GA, needed help with high electric bills from cooling units running all the time and inside temperatures not going below 25°C (78°F). The power bill from September previous year showed 11,320 kWh's used vs. September next year usage of 5,200 kWh's. **The cooling tonnage was re-tested at 16.97 tons from 22.8 tons. They reduced their energy use by 55% and the amount of cooling needed by 26%.**



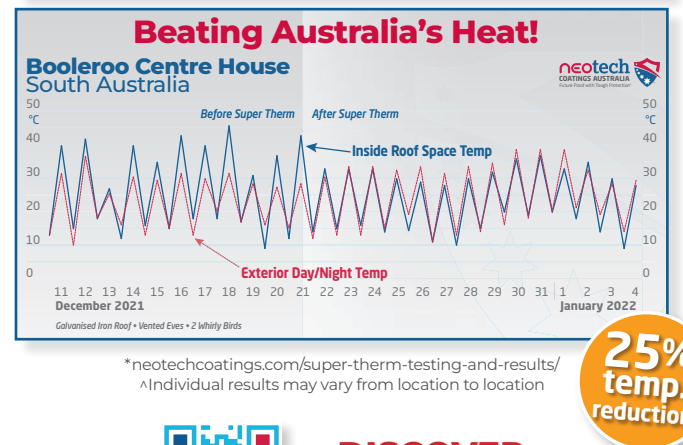
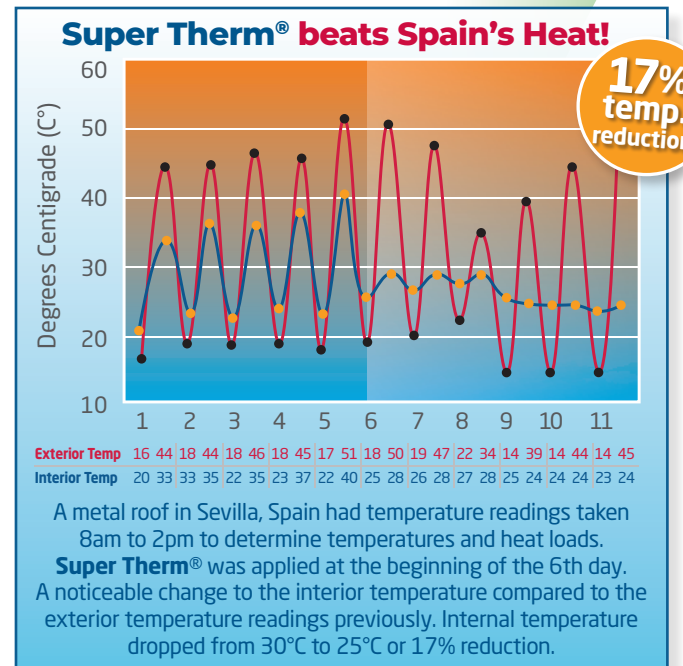
50-60% utility reduction

Temperatures in **Las Vegas** average 43.3°C in July (summer). Adobe Homes coated the roof and walls with **Super Therm®** of a home and report up to 50-60% reduction on the total utility bill. The house maintains temperatures not over 27°C without air conditioning.



52% reduction in KW

Vodafone Engineering Study shows **52% reduction in KW usage** from application of **Super Therm®** on mobile phone containers, which results in actual dollars saved on the total utility bill. Vodafone is the largest mobile telecommunications network company in the world.



DISCOVER MORE!

neo.cool
case studies

FUEL
20-30%
REDUCTION
INDUSTRY TESTED

Trucks & Reefers using Super Therm® Denver to Phoenix, USA

Cool-down time was cut by **1.75 hours or 44%**
20% less fuel on the outbound "hot" haul
29% less fuel on the return "cold" leg
Extend the life of the refrigeration trailers

neo.cool

Super Therm® stops the world's heat challenges

Super Therm® has been thoroughly tested and proven. It has been used by many multi-national organisations and governments which have applied millions of m² around the world since it was first released in 1989. It has continued its long lasting, award-winning, proven success for over 30 years and the benefits, environmental rewards and sustainable results are comprehensive.



SUPER THERM®
Heat Neutralizer...Ceramics Thermal Coating

US Airforce protecting sensitive jet electronics with **Super Therm®**



Global Organisations using Super Therm®

- Mitsubishi
- Nissan
- Panasonic
- General Dynamics
- Hoover Dam Company
- Trucking - Refrigeration Trailers
- Major Global Oil Firms
- Halliburton
- Drydocks World
- Vodafone Group PLC
- Home Builders
- International Airports
- Pacific Shipping and Trucking
- U.S. Army
- U.S. Air Force
- U.S. Navy
- Canon
- Wal-Mart
- Paramount Pictures
- Exxon-Mobil
- Sony
- Toshiba
- Toyo Tire
- NEC
- UPS
- Yamaha
- Yokohama Tyre



Super Therm® applied to Panasonic, Nissan and many other leading Japan companies



Blue Chip Casino Boat with **Super Therm®**, Rust Grip®, Moist Metal Grip® and Enamo Grip®



Address Dubai Marina Hotel, **Super Therm®** completed application



Super Therm® used on a Pantech in Poland to save money and keep heat out

Super Therm® Applications

- Aged Care Facilities
- Airports
- Aircraft Hangers
- Agriculture
- Car Sales showrooms
- Government Buildings
- Data Centres
- Distribution Centres
- Education
- Factories
- Homes/Houses
- Hospitals
- Leisure Centres
- Manufacturing
- Military
- Offices
- Plant Rooms
- Shipping Containers
- Shopping Malls
- Sporting Clubs
- Storage Units
- Supermarkets
- Transport
- Warehouses
- Wineries
- Workshops



Super Therm® reduced flaring on LNG tanks owned by Saudi Aramco Oil in Saudi Arabia



City of Adelaide Cool Roof Trail with the University of Adelaide with **Super Therm®**



Rio Tinto shipping containers in the Pilbara WA reach over 50°C with **Super Therm®**



Super Therm® used on air bridges at Las Vegas McCarran Airport



Award winning Hoover Dam heat protection for visitor safety

Super Therm[®] can be colour matched to these colours in the COLORBOND[®] steel range

Colorbond [®] Surfmist [®] 78%	Colorbond [®] Smooth Cream [®] 77%	Colorbond [®] Evening Haze [®] 69%	Colorbond [®] Paperbark [®] 66%	Colorbond [®] Shale Grey [®] 64%	Colorbond [®] Dune [®] 64%
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COLORBOND[®] and [®] colour names are registered trade marks of BlueScope Steel Limited. [™] colour names are also trade marks of BlueScope Steel Limited. ABN 16 000 011 058.

White 96.1%	Golden Green 89%	Magenta 88%	Canary Yellow 87%	Light Yellow 86%	Light Cream 83%	Lavender 83%
Yellow Green 82%	Sply Beigh 78%	Eggshell 78%	Cream 78%	Light Yellow Tan 77%	Light Golden Tan 77%	Light Peach 75%
Peach 75%	Mint 70%	Blushing Belge 69%	Yellow Tan 67%	Golden Tan 66%	Blue Smoke 66%	Grey Tan 64%
Aqua 66%	Misty Grey 66%	Light Brown 65%	Smokey Green 64%	Smokey Brown 64%	Light Grey 56%	Foggy Grey 55%
					Solid Grey 52%	



Super Therm® Protects Our Planet

Easily reduce your carbon emissions

Industries, government and consumers globally rely on **Super Therm®** due to its unique and outstanding high performance and sustainability results and benefits. The core properties of **Super Therm®** continue to attract smart customers needing a genuine and long term eco-friendly solution that yields passive energy efficiency, reduces CO₂ emissions and reduces costs. It stops the BTUs entering buildings means less cooling needs, therefore reducing energy!

Super Therm® the proven leader!

EPA Energy Star Program

- **Super Therm®** is an approved and accepted Energy Star Partner
- ASTM E 903-96 Reflectivity=80%
- Only 1% loss in reflectivity over 3 Years (3% over 10 years)
- ASTM C 1371 and C 1549 Solar Reflectance and Thermal Emittance
- Tested maintains high thermal efficiency for 30+ years

CRRC (Cool Roof Rating Council)

Rated Products Directory: Field-Applied Coating. CRRC Product ID# 0802-0001

LEED - Leadership in Energy and Environmental Design

Cradle to Cradle Silver Certification

Environmentally Safe and Eco-effective

SPI - Member U.S. Green Building Council



Dark Roofs are Hot and more expensive!

Dark surfaces attract 25-30% more heat than white due to emissivity.

While dark surfaces may blend into the environment better, they **increase the temperature more in your building and contribute to the urban heat island effect!**

As energy prices and temperatures rise you'll need to consume more energy to remain cool, therefore it costs more and produces more CO₂. **Absorbing more heat, dark coloured surfaces magnify the temperature more**, sometimes reaching 80°C+ on a hot day with no heat barrier. This heat is transferred into the building where fibreglass insulation loads that heat and air conditioners work extremely hard to keep up... eventually its all overloaded and expensive!

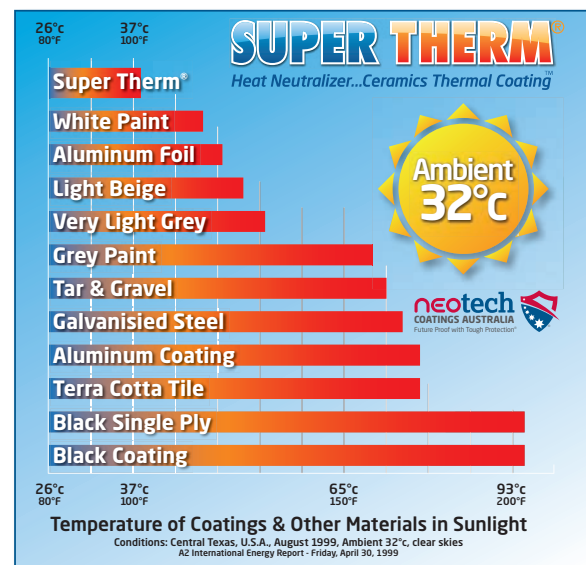
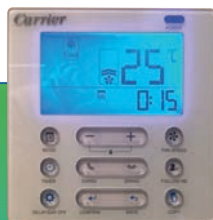
Super Therm® blocks 96.1% of that heat at the best place, the envelope, leaving near ambient temperatures. This creates a very energy efficient building that also protects the roof from thermal shock, corrosion, sound and fire.



Save 39% more energy at 25°C

Con Edison, NY research stated "keep your thermostat set at 25°C when your building is occupied...turning down the thermostat to 23°C costs 18% more, and 22°C costs 39% more!"*. Therefore BTU Reduction = KW Reduction = Dollars reduced...keeping out as much heat load as possible reduces costs and energy.

Super Therm blocks heat = less energy to cool!



Certified, Tested and Approved



**Dark colours attract heat to your building!
Block the heat with Super Therm®**

neo.cool

Future Proof with Tough Protection™

SUPER THERM®
Heat Neutralizer...Ceramics Thermal Coating

At NEotech Coatings Australia we understand from our seas to the cities, the outback to the tropics the barrage of heat, fire, corrosion, acids, mould, bio-fouling, lead paint and asbestos encapsulation is unyielding.

As the environment constantly changes, industry assets and infrastructure for companies, government and residence face a relentless attack from both the natural environmental and man-made contaminants.

Defending against these attacks and finding sustainable, long lasting, trusted and proven solutions is a challenge. That's why **NEotech Coatings** with **Superior Products International II. Inc.** are working hard for you to have outstanding solutions.

Super Therm® has proven to block heat and in many cases lasts over 20 years!

We bring peace of mind to combating the contaminated environments across all industry sectors including business, government, trucking and transport, cool and cold storage, homes, schools and much more! Contact us today to start truly blocking the rust and any other nasties!

Super Therm® Physical Data

- **Solids:** By w/w 70% / By v/v : 54% (+/-2%)
- 30-60 minutes to tack free at 21°C (70°F)
- **Overcoat:** 2 hours when 21°C (70°F) at 40% Relative Humidity
- **Full Cure by Evaporation:** 21 days
- Lead and chromate free
- USDA approved and permitted for use for potable water
- **Weight:** 1.42kg/litre (11.88 lbs./gallon)
- **Shelf Life:** Up to 5 years if unopened under appropriate storage conditions (See SDS).
- **Vehicle Type:** Urethane/Acrylic/Resin blend
- **VOC Level:** 67.2 grams/litre 0.561 gal/lbs
- **Acid resistance:** Will withstand mild acids
- **Viscosity:** 105 - 110 KU
- **pH:** 8.5 - 9.0
- **Apply:** 425 microns (17 mils) wet

Visit neo.cool for full Technical and SDS pdfs

**STOPS
99.5%
Infrared
Heat**

TSR 96.1
Reflectivity 83%
Emissivity 90%
BTU 99.5%
ASTM E1461-92

Protect Your Industrial Assets



Rust Grip®
World's Toughest Encapsulation Coating

Enamo Grip®
The Ultimate Protection Coating

Moist Metal Grip®
Corrosion Protection in Moisture

HPC COATING®

SP Interlock®
Protect & Encapsulate Stone and Concrete



**NEotech Coatings Australia Pty Ltd are
Authorised Australian Distributors of
Superior Products International (SPI) USA**

Local Australian Dealer/Applicator

neotech
COATINGS AUSTRALIA
Future Proof with Tough Protection™



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SALES AND DISTRIBUTION

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