

5 Great Reasons why you should treat your factory or home with Insulpaint



Fremantle City Council Mayor's office is now safe and cool after Insulpaint was applied to seal and enhance the old ASBESTOS ROOF.

1. Insulpaint will reduce the internal temperature of your commercial building or home.

Insulpaint has been independently tested and conclusively proven to be more effective in reducing internal temperatures than most other forms of insulation.

2. Insulpaint will save you money on air conditioning costs.

Whether in a home or an industrial workshop, Insulpaint coated roofs significantly reduce load and power requirements of air conditioning systems. In full scale practical experiments, Insulpaint recorded a 20%–40% saving on power costs. Cost reductions mean Insulpaint has paid for itself over a short period of years!

3. Insulpaint comes with a 10-Year Written Warranty.

Insulpaint is a superior formula that has been proven with thousands of happy home and business owners all over Australia and overseas. You buy with confidence.

4. Insulpaint will work more effectively without costing you any extra than normal paint.

It is amazing how many thousands of Insulpaint customers bring up this fact and cannot believe how comfortable they are even on the hottest of days.

5. Insulpaint is Time Tested and Proven to Work.

For 22 years Insulpaint has stood the test of time and continues to amaze clients and researchers alike, throughout the globe.

For professional client references, infrared photographs, heat comparisons of before and after Insulpaint, please visit the video section on our website at www.insulpaint.com.au

Dunbar Services



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Forward A&M. © B Roberts 7/08

University of Western Australia Agricultural department now saves money on energy at the seed shed with with Insulpaint



The Agricultural Department of the University of Western Australia's seed shed is kept at a constant temperature to preserve seeds for seed research. Now with Insulpaint the seeds are protected from summer heat for a fraction of the cost of air-conditioning or refrigeration panels.

The preservation of seeds for crop research has been the No.1 priority of the AG Department. When Insulpaint was applied to the roof and walls of the seed shed at UWA the temperature was always constant.

Seal your old asbestos roof to make it safe with Insulpaint

There are many thousands of buildings with asbestos roofing that can be harmful for your health and that of your family and customers.

Insulpaint is one of the few coating systems that will make sure asbestos fibres do not fly loose due to algae and mould infestation, common in such roofing. Trained and licensed personnel will apply acticide to coat the asbestos sheeting to kill all the mould and algae. A special sealer is applied, followed

When the department was originally looking for quotes from air-conditioning industry, the cost for refrigeration panels and air-conditioning was \$65,000. Insulpaint solved their problem for a mere \$2800 including GST.



Fremantle Bowling Club Asbestos roof AFTER sealing and insulation with Insulpaint by two coats of Insulpaint. Once the roof is coated with Insulpaint, sealing the roof exterior, Insulpaint coating is so effective it will reduce interior temperatures of your building by between 6-15°C.

Summary of Tests for Insulpaint A500.

- 1) Goldstein Richards & Co. Physicist and Consulting Engineers. Heat Barrier test. 1985
- 2) University of New South Wales, Dr J Goldsmith, Emetrius Professor of Applied Physics. 1986/87.
- 3) University of New South Wales. Department of Physics. Various tests 1986/87.
- 4) AE Smith West Air. Comparative Field Energy Saving Tests Karratha, 1990.
- 5) University of Bombay. Department of Chemical Technology. Performance Test, 1990.
- 6) United Arab Emirates, Lamprell Dubai. Coating Container Tests. 1994.
- 7) Department of Meteorology WA. Brambles Transport P/L. Road Test 1987.8)Dampier Salt WA. Motor Control Cubicles. Building Maintenance Department. 1989.
- 9) State of Qatar, United Arab Emirates. Civil Engineering Department. Accelerated Weathering Test. 1995.
- 10) Kuwait Institute for Scientific Research. Metal Boxes Tests. 1995.
- 11) Government of Dubai. Dubai Aviation. Comparative Insulation Efficiency test 1997.
- 12) BHP Iron Ore, WA. Report on Heatgard (Insulpaint Identical Cluster Houses. 1996.
- 13) University of NSW. School of Physics & Unisearch Ltd. Various Tests. 1987.
- 14) Dr Raffelle Cammarano, Heatshield (Insulpaint) No Boundries Report. 1996.
- 15) Elliot Containers/Transport QLD. Heatgard (Insulpaint) Various Tests 1994/98.
- 16) Tarmac Laboratories Division. Oman Room Temperature/ Water proofing Tests. 2000.
- 17) Hamersley Iron Independent Report Energy Savings Heatgard (Insulpaint) 2001.
- 18) Multiplex Q Meat Job, QLD. Thermoscan Inspection Infrared Camera Photo. 2004.
- 19) Professor John Bell, Calculations of Cooling Load Woolworths Test Graph. 2005.
- 20) Chinese National Centre for Quality Supervision. Test Report. 2006.
- 21) Education Department SA. Data Logging Tests for Kapunda State School. 2006.
- 22) Elizabeth Shopping Centre, Adelaide SA. Dataloggin Tests, 2008.

Testimonials from Satisfied Insulpaint® users.

John Clegg, Director
Onnivest Business Consultants.

"We have now had our double storey residence and consulting office in Rossmoyne treated with Insulpaint® A500. The roof is a standard colour - Missouri Sky, and the upper storey walls are Insulpaint® Light Beige, specifically colour matched to the existing colours, including the lower walls.

The result has been entirely as you advised, and are a substantial improvement. The internal building temperatures are a demonstrable reduction at the height of summer daytime, and are in excess of 12 degrees C. This is particularly evident in the upper storey.

This treatment has made a very real difference in our ability to work in this upper area of the house. Our layout and floor plan includes our consultancy office work area with two computing work stations etc. This area had until recently required air conditioning during summer months to be turned on from 8.00 a.m. until usually 7.00 p.m. Since roof refurbishing most days in the last few weeks despite full summer sun and temperatures of 37C we have required minimal air conditioning usage and at times not at all."

A \$12,000 coat of heat insulating paint has saved the Hunter Water Board \$250,000 in air-conditioning costs at the head office of the Hunter Water Board on Newcastle.

Board engineers were faced with the problem of heat gain through a 660m² 200mm thick concrete slab roof covered with galvanised steel. They examined the possibility of Insulating the steel roof and the idea of using an Insulating paint was suggested. The Board's head office was designed with six floors but only three have been constructed. The roof of the building will be the floor of the next storey when the building is extended upwards. A low pitched steel roof was constructed to waterproof the building with less than half a metre clearance between the steel roof and the concrete slab.

By 3pm on summer afternoons the air conditioning was becoming overloaded as it could not cope with the heat being transmitted into the building through the steel roof and the concrete slab.

Building and Property Maintenance Coordinator David Rigby said "A short, term alternative was to upgrade the air conditioning system at a cost of \$40,000. An upgrade would have only partly solved the problem and the plant would have to be replaced with a larger, more energy intensive plant at a cost of \$250,000."

The solution to the problem was to apply a coat of Insulpaint® to the steel roof which reduced heat transfer through the concrete slab by 30%. The paint has reduced the load on the air conditioning plant which, with only routine maintenance, is expected to remain in operation for another 15 to 20 years without the need for an upgrade.

Fantastic results

"After one of the hottest Perth Summers on record we had to have our Air-conditioning running flat out to make it bearable to work in our offices. Since having Insulpaint applied we just run it for a couple of short bursts each day on really hot days. the difference has been astounding."



Craig Manser,
Baines Manchester
Carlisle, WA

Glengarry Primary School saves on heating costs during winter.

"Before painting the building with your Insulpaint, I noticed an improvement in a number of conditions which made the room more habitable for both myself and the students in the room.

- i) The room was noticeably cooler in summer and did not reach the very hot temperatures of previous years.
 - ii) The room was easier to heat during winter and retained the heat for a longer time.
 - iii) Heaters were able to be turned off at an earlier time as a suitable temperature for the rooms was reached more quickly.
 - iv) I noticed that to get the same heat as previous years into the room I did not have to turn on all four heaters but only two.
- In my opinion I think that the painting of the demountable with your insulating paint greatly improved the cooling and heating retaining ability of the demountable."

Bob Davis, Allsports Trophies..

"We have a large workplace situated close to the metal roof with only a thin layer of standard insulation blanket. In anything more than 24°C weather the bottom layer of the insulation was hot to touch and constantly heated the interior, leading to oppressive conditions. Despite the large aircon running flat out the temperature upstairs often approached 40°C in summer. Insulpaint has made a huge difference to the interior temperature. The surface of the insulation is now always cool to touch and aircon is hardly used. The coating works exactly as you said it would and I am delighted with the result."

Andrew Barnes,

Owner Commercial Premises Rockingham.

"Thankfully I chose your product over competitors, although a little more expensive, it more than blows away any results they could expect. I now enjoy a unit radiating heat below ambient temperature and with far better sound accoustics radiating out of my unit or from other units."

Astute Home & Business Owners Now Save Money!



Shown above: The Fremantle Market Site on a 30°C day. The internal temperature was 40°C+. After Insulpaint® was applied, on a 42°C day, the internal temperature was measured at a cool 27°C.

Insulpaint® – Made in Perth WA since 1986 by Cameleon Paints to Australian standards.

Insulpaint® is tried, tested and proven WA made insulating coating that can be applied to almost any exterior surface. Suitable for home or commercial applications Insulpaint® is Government Approved and has over 20 years of testing, both in Australia and overseas.

- Insulates and protects all types of roofs and walls including concrete, tile, metal, asbestos and more.**
- Saves you money all year round in costly electricity. Proven to save you up to 60% on heating and cooling.**
- Approved for Government use throughout Australia.**



RENDERED SURFACES

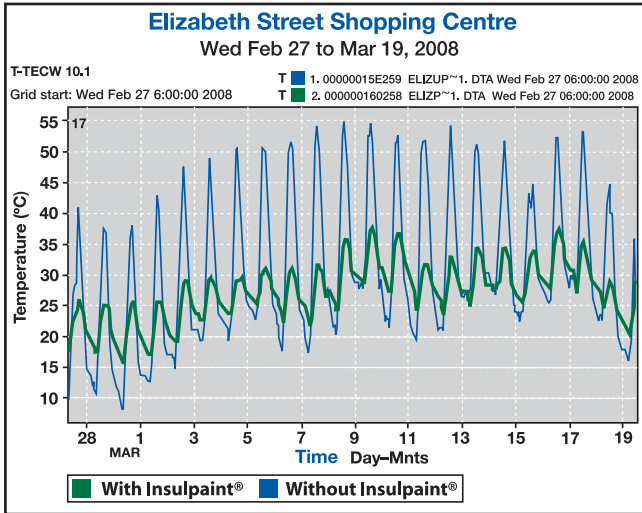
Best solution for rendered walls. Reduces expansion and contraction, which causes ugly spider cracking.

Insulpaint®



THE WORLD'S LEADING INSULATION AGAINST THE ELEMENTS

Insulpaint® beats the South Australian heatwave in 2008.



Graph (above) shows the movements in average daily temperature inside the shopping centre metal roof space from the 27th February to 19th March 2008, with and without Insulpaint® and clearly demonstrates the effectiveness of Insulpaint®.

Elizabeth Street Shopping Centre in Adelaide were having difficulties with their air-conditioning system being overloaded and not coping with the heat.

The engineers were called in to investigate the problem. When Insulpaint® was introduced to coat the roof the results were outstanding.

On the hottest days of the heatwave with the temperatures of 35–45°C the Insulpainted roof temperature was measured with heat data loggers. The maximum temperature in the roof space painted with Insulpaint® was only 35°C. The uncoated section of the roof was 55°C plus.

The above temperature graph clearly shows the distinct

differences in coated and uncoated surfaces.

It is important to note that the entire roof space already had insulation installed and ANTICON (silver foil) underneath the roof.

It is quite clear Insulpaint® will work better than conventional insulation on its own.

What's more, the above trial proves that the air-conditioning system is running more efficiently and cost-effectively. Also reducing the load on the air-conditioning will give a longer lifespan. After these exceptional results the shopping centre management have now budgeted to coat the entire 31,000m² roof at Elizabeth Street Shopping Centre.

Insulpaint® relieved the heat stress on animals and staff at Shenton Park Dogs Refuge in Perth.



Shenton Park Dogs Refuge Kennels had a reduction in internal temperatures from 40°C + down to 28°C after Insulpaint® was applied.

Shenton Park Dog's Refuge on a 36°C day the kennels recorded 40°C+ inside. After Insulpaint® was applied on the roofs of the kennels, on a 36°C day, the underside roof temperature was 28°C and on the concrete floor of kennels where the dogs lie, it was a much more comfortable 22°C. The dogs were happier with

reduced temperatures and so are the staff, as the dogs were not barking as much. The volunteers and staff at the refuge work in an office with the air-conditioner running flat out all day. The temperature inside the offices was recorded on the same day at between 24°C to 28°C. The dogs were enjoying cooler conditions than the staff.

Hammersly Iron, Karratha saves up to 60% on power in their worker's homes in 2001.

The company recorded savings of 1000 units of power a month on the in-house testing by Hammersly Iron demonstrated that by painting the roofs of buildings with Insulpaint® they were able to dramatically reduce internal building temperatures. There was a saving of 1000 units of power usage a month on the cost of air-conditioning. In addition to this, the lifespan

of the air-conditioning units were extended by up to 18%. The report also concluded that greenhouse gas savings over a 6 month period would be up to 5.3 tonnes of CO₂ emissions per home into the atmosphere. This equates to savings of 0.75 kilos for each unit of power produced allowing Hammersly Iron to reduce carbon emissions and save money.

Whiteman Park Tram Sheds now cool and comfortable.



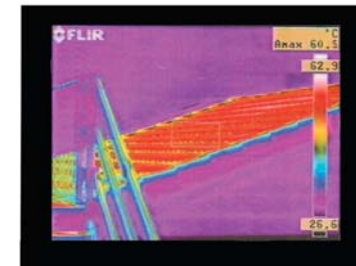
Retired engineers at Whiteman Park raised money to Insulpaint® the hot sheds. After applying Insulpaint® the temperatures in the sheds were up to an average of 8°C+ cooler.

Retired engineers at Whiteman Park regularly sweltered in extremely hot conditions.

They considered the various options. After having painted one of the sheds with Insulpaint® a few years ago, they were extremely happy with the results. Their workplace was

comfortable and they then decided to Insulpaint® the roofs and walls of the remaining 3 sheds. Prior to painting the engineers carefully recorded the temperatures on the inside of the sheds and were amazed at the cool down. The average drop recorded was 8°C daily.

Roof without Insulpaint®

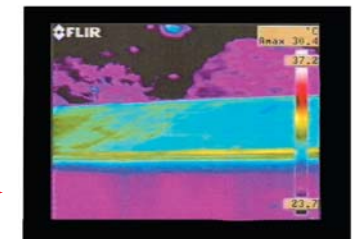


Roof without Insulpaint 60.2°C

Infrared photos showing the difference in temperature between a roof with Insulpaint® (bottom) and without (left).

Same Day, Same Time.

House next door with Insulpaint® 30.4°C



Asbestos Roof Cooled and Sealed Safe.



Tony Sadlers was losing customers and staff were suffering due to excessive heat, which during summer could reach up to 40°C. After painting with Insulpaint®, internal temperatures were reduced to a very pleasant 28°C, this has meant a big reduction in air-conditioning costs.

Staff and customers at one of Australia's largest homeware retailers, Tony Sadlers were very uncomfortable with the heat inside the store. Even with the air-conditioner running all day long it was still too hot and uncomfortable. Rather than upgrading the air-conditioning system at a prohibitive cost, Tony Sadler the owner, decided to Insulpaint® the asbestos roof not only to cool the building down but also to seal the dangerous asbestos fibres.

Insulpaint® wins National Energy Innovation Award in 1988 for energy savings.

Insulpaint® was invented in Australia in 1985 and is proudly made in Western Australia by Cameleon Paints Pty Ltd and sold all over Australia and overseas and was awarded the National Energy Innovation Product by the Federal Government in 1988.

Insulpaint Australia has exclusive distributors in every state as well

24 hours after Insulpaint® coating was applied and temperature monitors were installed throughout the 2000m² store Tony could not believe the reduction in average temperatures especially on a 40°C the internal temperatures were up to 12°C cooler. The management were so impressed with Insulpaint® results. On some days the air-conditioner was not required as the shop was cool and comfortable.

as being major suppliers to Government departments, large commercial industries and the private sector.

Insulpaint® has been used to cool homes, factories, schools, churches and businesses for over twenty two years and has been independently tested, and proven to be very effective in reducing internal temperatures.

Insulpaint® beats conventional insulation hands down.

Why Insulation is so important.

Without insulation, your roof space can act like a heat trap, heating up to 65°C or more on a hot day. As it heats up the roof space can hold and radiate heat down through the ceiling and into your home or business. Heat trapped during the day will continue to radiate heat even at night, making life uncomfortable for you, your family and staff. To combat this problem most people simply turn on the air conditioner, which can put a huge strain on their energy bill.

Facts about Insulation

Many modern buildings contain some form of insulation which can be batts or loose fibres. Traditional insulation is mostly installed above the ceiling, which does nothing to prevent heat building up in the roof space.

Insulpaint® is water-based, non-flammable, non-toxic insulating coating, which does not contain hazardous fibres. It is strong,

flexible and resilient and is guaranteed to work effectively for the life of the product.

By applying Insulpaint® to the exterior of the roof you can prevent heat entering the roof space and can even make existing insulation work that much more effectively.

Prevention is always better than a cure. Furthermore, because the roof cavity is already cooler during the day it doesn't continually radiate heat into the house at night.

Insulpaint® is available in 21 standard colours and can even be tinted to many other colours. This makes it ideal for commercial applications where first impressions are so important. Insulpaint® can be applied to large or small areas from small patios to large factories and can even be used to insulate walls which may be exposed to the sun for most of the day.

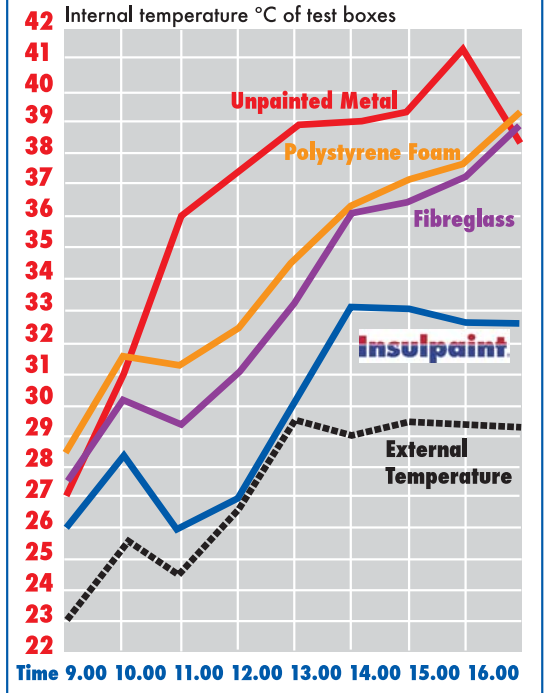
How Insulpaint® works

Insulpaint® is a water based, high-quality paint that is impregnated with a special proprietary insulating ingredient called "ACRAD 8". This is a unique plant based fibre that gives the paint the ability to block the transfer of heat and reduce heat loads with reductions of between 6°C and 14°C or more.

Insulpaint® works by blocking the transmission of heat through the roof or walls. Insulpaint® uses 100% Styrene Acrylic Resin base, which is renowned for superior hardness, flexibility and durability.

Results for Insulpaint® compared with Conventional Insulation Systems

NSW University Test



Test metal boxes were insulated using the different systems and set outside in the sun. Temperature probes located inside the boxes measured the internal temperatures. It can be seen that the Insulpaint® treated box internal temperature was generally within 3C of the ambient (external) temperature. This result was far better than both the fibreglass and polystyrene foam insulating systems.

Insulpaint® is impervious to pollution and extreme weather. It will remain effective for the life of the coating regardless of grime, dust and pollution. Insulpaint® is also water-proof and micro-porous which allows the substrate to breathe and avoid cracking in the masonry.

Along with its proven thermal properties, keeping buildings

cool in summer and warm in winter, it also has acoustic properties which make it ideal to reduce sound especially for corrugated roofs such as Colorbond. The diagram above demonstrates a university test comparing standard Insulations used against Insulpaint®. Insulpaint® is effective both summer and winter and can keep you comfortable.

Heat Reduction Compared

