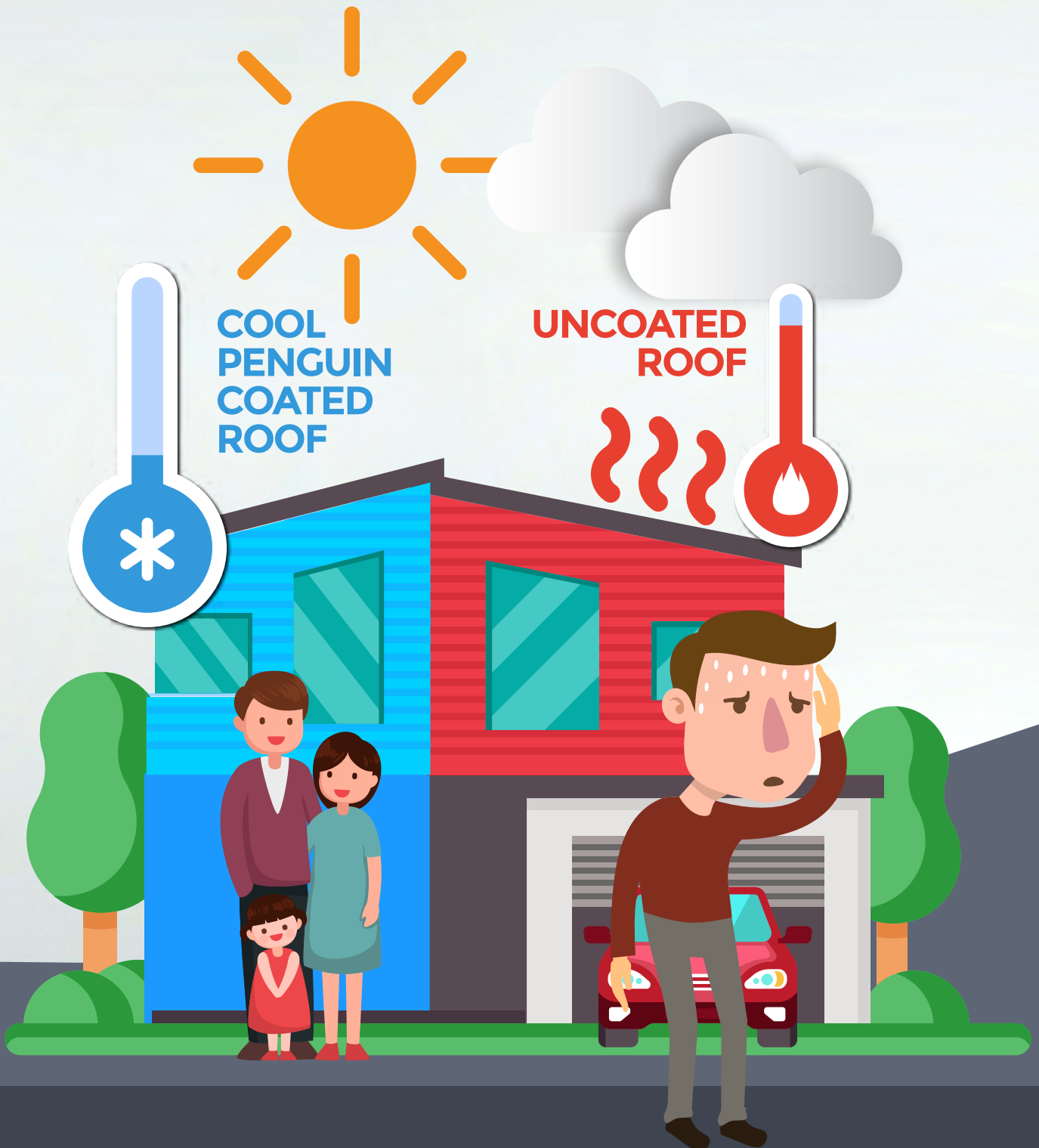


# Nano Technology Based Cool Roof Coating



COOL ROOFING COATING



[www.oasisland.com.my](http://www.oasisland.com.my)

## PRODUCT ADVANTAGES

### REFLECTIVE + NANO INSULATIVE TECHNOLOGY

Double action: prevents the roof from getting heated up even in harsh and dusty conditions. Resulting in cooler interiors.

### MICRO FIBRE REINFORCED WATERPROOFING

Provides effective water proof property along with excellent crack resistance.

### WATER BASED, ECO-FRIENDLY GREEN CERTIFIED

Contains no solvents, very high SRI, ultra low VOC. GREEN manufacturing process, GRIHA Certified.

### ADVANCE NANO UV PROTECTION

Prevents degradation of the coating due to UV rays, resulting in long service life & excellent weatherability.

### REDUCED ENERGY COST UP TO 40%

Prevents the building from getting heated up thus resulting in reduces cooling load up to 40%.

### LOW COST APPLICATION & MAINTENANCE

Low cost - no recurring maintenance - dust proof - water proof - fungus & mold resistant. Roof looks bright & new with all these advantages.



Cool Penguin is a high SRI, Nano-technology based Cool Roof Coating. Applying Cool Penguin on the exterior of the roof, reflects 90% of the IR rays back to the atmosphere. Due to the continuous rejection of sun's heat, the roof surface itself does not get hot. Thus the air below the coated roof never gets hot, keeping the rooms cool & comfortable even during hot seasons. Superior double action technology delivers consistent performance & long term protection for buildings.

### PRODUCT DESCRIPTION

Cool Penguin is a water based, high solids, 100% pure acrylic coating. Cool Penguin contains both reflection and nano insulation pigments for best in class heat protection. Along with it, the adhesion enhancer & Nano UV protectors prevent the coating from UV degradation delivering excellent weatherability and longer service life. Cool Penguin is powered with micro-fibres for excellent water proofing & crack resistance.

**The product can be applied on any types of surface like Reinforced Concrete Roof (Flat/Slope), Tiled, Metal Sheet, Asbestos Sheet, Colour Coated Metal Sheet, Side Walls etc...**



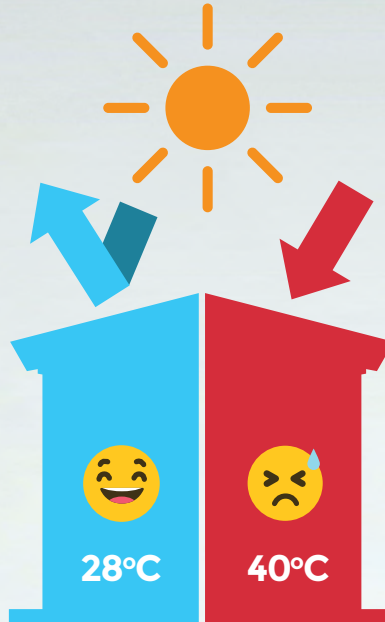
### PROPERTIES

<b>Ultraviolet Resistant</b>	Nano UV protectors provide excellent UV protection and longer service life.
<b>Reduced Energy Costs</b>	The reflection & insulation technology provides excellent thermal barrier. Up to 40% power saving can be noted in humidification and air-conditioning areas.
<b>Long-term Performances</b>	The UV cross-linking polymer and UV protectors provide an excellent tough and durable protective membrane.
<b>Water-Based</b>	Contains no solvents, cleans up with water. No toxic substance incorporated.
<b>Low Cost Application &amp; Maintenance</b>	Low cost - easy application - dust proof - water proof - fungus & mold resistant. No recurring maintenance cost. Roof gets cleaned automatically in rain.
<b>Stable Colour</b>	The acrylic resins cross-link under UV exposure to lock in colour and lock out dirt.
<b>High Film Build</b>	High volume solids allow fast application to uniformly cover textured substrates.

## COMPARISON



- Reflect 90% of IR rays
- Double Action: Reflective + Insulative
- Does not allow the roof to get hot  
Reduce Roof Heat up to 20°C
- Since no heat enters the building, the temperature of the room does not raise above ambient
- Keeps the room cooler even during hot seasons
- Reduce air-conditioning cost up to 40%



### UNCOATED ROOF

- Uncoated roof absorbs heat and transmits it into the building
- Internal room temperature increases due to transfer of heat from the roof
- Results in thermal discomfort, increased cooling cost, releases green house gases, increase urban heat island

## ADVANTAGES



01

Blocks 90% of IR rays  
Reducing roof heat about 8°C to 20°C



02

Building remains cool even during hot seasons



03

Improves working environment resulting in improved efficiency of labours



04

Reduction in humidification and air conditioning cost up to 40%



05

Low VOC, high SRI, eco-friendly GRIHA certified green product



06

Reinforced microfibres delivers excellent water proofing & crack resistance

## TECHNICAL INFORMATION

Physical Appearance  
Solar Reflective Index (SRI)  
Coating Type  
Solar Reflectance tested as per ASTM C1549-09  
Thermal Emittance tested as per ASTM C1371-04a  
Volatile Organic Contents (VOC)  
Service Temperature  
Toxicity  
Water Absorption  
High Humidity  
Fungus Resistance  
Impact Resistance  
Chemical Resistance  
Fire Resistance  
Adhesion Strength  
Abrasion Resistance  
Number of Coats  
Solids by weight  
Dry film thickness  
Dry Touch @ 30°C  
Recoating time @ 30°C  
Curing Mechanism  
Viscosity  
Ph

Milky White  
122  
100% pure acrylic base heat insulating paint  
0.92  
0.91  
Extremely low 1.34 gm/ltr  
100°C  
Non toxic  
Water proof coating  
No penetration of water, no loss of adhesion, no blistering, cracking or flaking  
No fungi development  
56"/pound  
Stable in mild Alkali acid and solvent  
Not flammable  
40 pound/square inch  
0.5 gm/1000 cycle  
2 coats  
50%  
55 micron/coat  
60 min  
After 4 hour  
At ambient temperature paint cures by evaporation of water & coalescence of polymer particles  
10 poise  
7 to 8



## AREAS OF APPLICATION



Restoration of Metal Roof



Concrete Flat Roof



Warehouse & Factory



Housing



**55°C**

Surface temperature of  
steel roof BEFORE coating



**33°C**

Surface temperature of  
steel roof AFTER coating

  
**Oasisland**

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