



SEAL THERMAL-SHIELD RF **ROOF APPLICATIONS**



The High Tech **Eco-Friendly** Thermal Insulation Coating for Roofs
Improves efficiency and reduces energy costs

Brochure



Energy Saving



Waterproofs



Eco-Friendly



Sound Damping

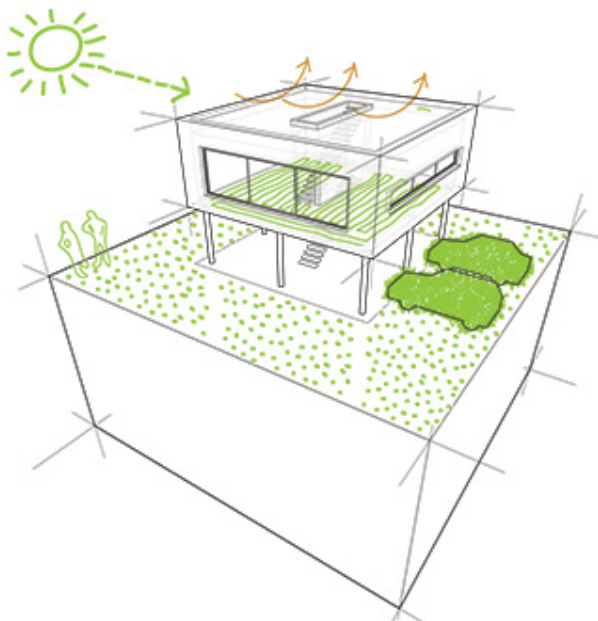
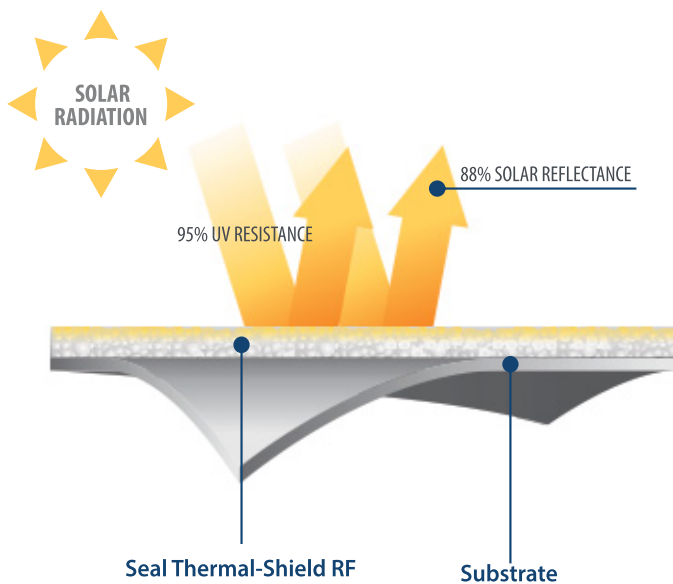
www.seal-coatings.com



Thermal Insulation & Energy Saving

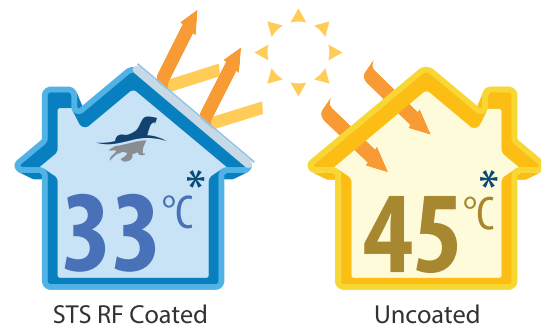


Seal Thermal-Shield RF forms an elastomeric heat barrier by, resisting over 95% of UV; refracting and dissipating up to 75% of the heat; and by reducing heat conduction. With this phenomena, heat entering a building is significantly reduced.



Benefits

- Reduces internal temperatures by up to 45%
- Increased thermal protection and saves energy
- Environmentally friendly
- Available in a wide range of roof colours
- Non-toxic, water-based, low VOC
- Eliminates blistering, peeling & cracking
- Excellent bonding to most substrates
- Excellent breathability
- Water Resistance

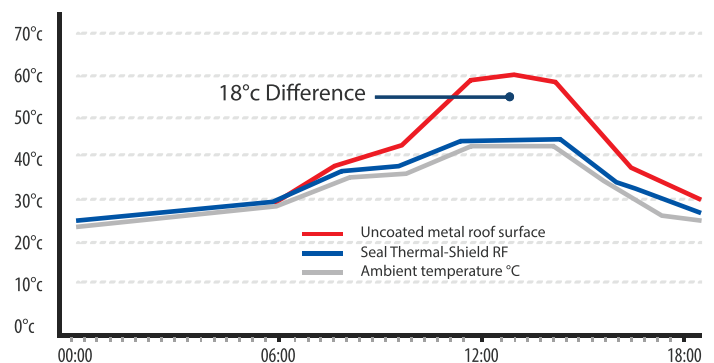


*Temperature reduction varies with environmental and application factors

Seal Thermal-Shield RF keeps buildings cooler in the summer and warmer in winter by reducing heat transfer through roofs.

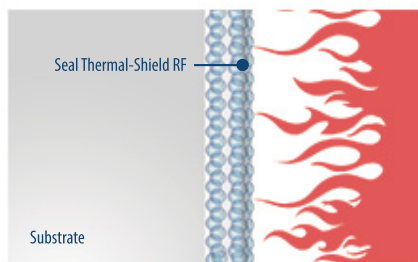
Case Study - Metal Roof

Summer duration - metal roof surface temperature
Case study - Dubai

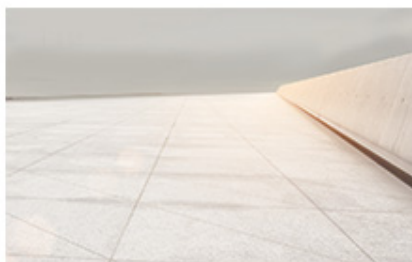




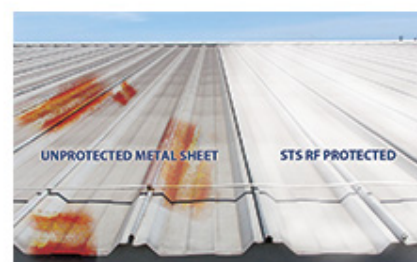
Class A - Fire Retardant



Waterproofs



Corrosion Control



Typical Applied Surfaces



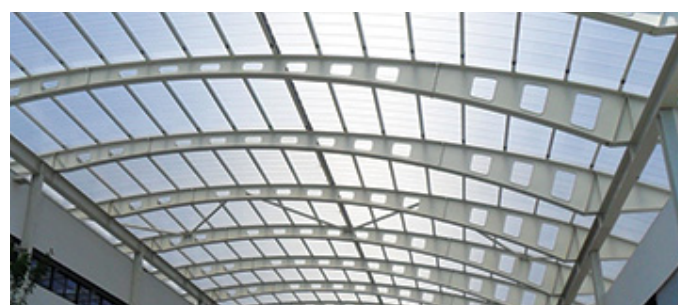
Powder coated / Galvanized metal roofs



Concrete roofs / abutments



Roof tiles



Fiber glass or Perspex

Theoretical spread rate

2.0 m² / Liter @ 500 Microns WFT

Approximate drying time

To re-coat: 4 hours, Fully dry 12 hours

Equipment

Roller or airless spray application is recommended

Thinning

Approx. 0%-5% with sweet water.

Packaging size

Available in 5 litres and 20 litres (Pail)

Colours

White or as per the roof colour chart

Product test and certificates

Type	Method	Results
Solar Reflectance	ASTM C 1549-09	88.3 (White)
Solar Reflectance Index	ASTM E 1980:01	110.5 (White)
Emittance	ASTM C 1371-04a	0.82
Thermal Conductivity	ASTM C 518-02	0.06 W/mK
Water Penetration	BS EN 12390	0mm @ 4kpa
VOC Content	BS EN ISO 11890:2	< 0.1 g/l
Light Reflectance Value	BS 8493:2008 + A1	93.18 (White)
Adhesion Strength	ASTM D 4541-09	7.0 N/mm ² Concrete
Abrasion Test	ASTM D 1044-99	0.9% Before 2.85% After
Fire Retardant	ASTM E 84	Class A
Elongation	ASTM C638-10	>250%

