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

Energy Saving  WaterProof  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

Case Study - Metal Roof

Summer duration - metal roof surface temperature
Case study - Dubai

*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.
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Method</th>
<th>Results</th>
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<tbody>
<tr>
<td>Solar Reflectance</td>
<td>ASTM C 1549-09</td>
<td>88.3 (Min)</td>
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<tr>
<td>Solar Reflectance Index</td>
<td>ASTM E 1980:01</td>
<td>110.5 (Min)</td>
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<td>Emittance</td>
<td>ASTM C 1371-04a</td>
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<td>Thermal Conductivity</td>
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<td>Water Penetration</td>
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<td>0mm @ 4kpa</td>
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<td>VOC Content</td>
<td>BS EN ISO 11890:2</td>
<td>&lt;0.1 g/l</td>
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<tr>
<td>Light Reflectance Value</td>
<td>BS 8493:2008 + A1</td>
<td>93.18 (Min)</td>
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<td>Adhesion Strength</td>
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<td>Abrasion Test</td>
<td>ASTM D 1044-99</td>
<td>0.9% Before 2.85% After</td>
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<td>Fire Retardant</td>
<td>ASTM E 84</td>
<td>Class A</td>
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<tr>
<td>Elongation</td>
<td>ASTM C638-10</td>
<td>&gt;250%</td>
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