

# **SEAL THERMAL-SHIELD IND** **INDUSTRIAL APPLICATIONS**



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

## Brochure



Energy Saving



Waterproofs



Eco-Friendly



Sound Damping

[www.seal-coatings.com](http://www.seal-coatings.com)

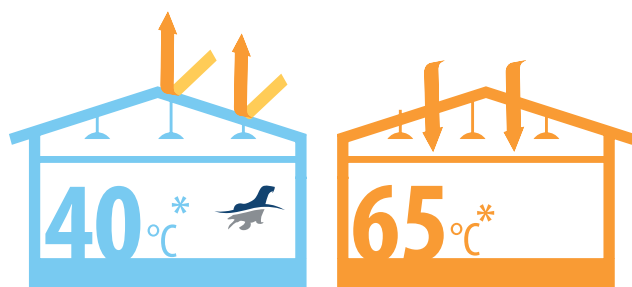
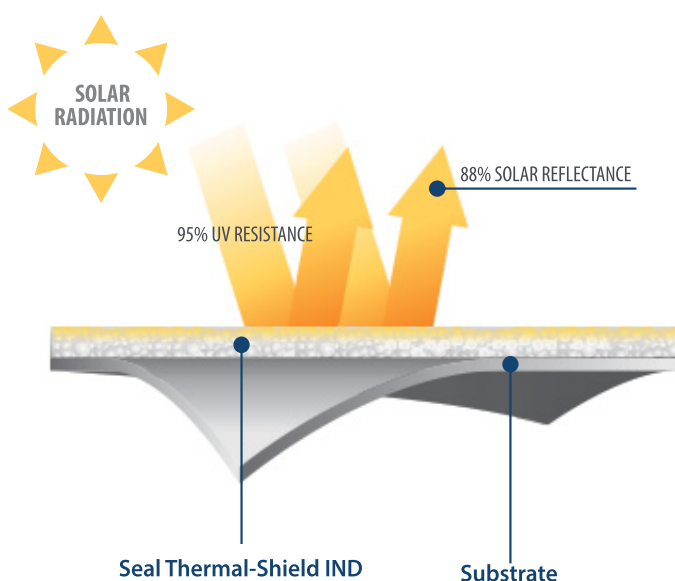
### Thermal Insulation & Energy Saving



Seal Thermal-Shield IND when applied forms an elastomeric heat barrier by

- 1- Resisting over 95% of UV.
- 2- Refracting and dissipating up to 75% of the heat.
- 3- Reducing heat conduction.

With this phenomena, heat flow is reduced significantly to provide protection and performance enhancement.



STS IND Coated

Uncoated

\*Temperature reduction varies with environmental and application factors



### Benefits

- Reduces internal temperatures
- Increased thermal protection and saves energy
- Available in a wide range of industrial colours
- Non-toxic, water-based, low VOC
- Eliminates blistering, peeling & cracking
- Excellent bonding to most substrates
- Excellent breathability
- Water Resistance
- Very low maintenance/repair costs
- Environmentally Friendly

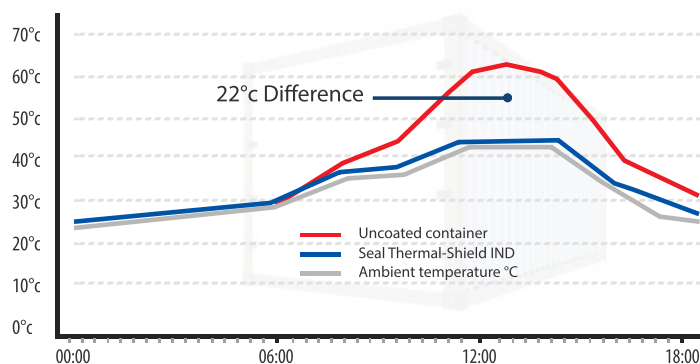
### Suitable Coating Surfaces

- Powder coated / galvanized metal
- Concrete
- Roof
- Fiber glass
- Perspex

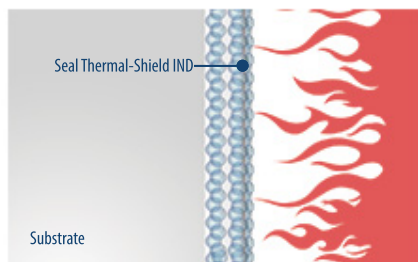
### Case Study - Shipping Container

Summer duration - shipping container surface temperature

Case study - Dubai



### Class A - Fire Retardant



### Waterproofs



### Corrosion Control



## Suitable Industrial Applications

- Air conditioning ducts
- Animal shelters
- Automobile cabins
- Boilers
- Fuel/chemical storage
- Exposed metals
- Steam pipelines
- Water tanks
- Storage tanks
- Industrail cabins
- Greenhouses
- Portable industrial offices
- Industrial steel buildings
- Shipping containers
- Skylights
- Marine cabins
- Plant boxes
- Industrial machinery
- Silos
- and much more...



Oil/Gas Storage Tanks



Industrial Pipelines



Shipping Containers



Cranes



A/C Ducts



Marine



Greenhouses



Animal Shelters

## Theoretical spread rate

0.8 m<sup>2</sup> / Liter @ 1200 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 industrial colour chart

## Product test and certificates

Type	Method	Results	
Corrosion Resistance	ASTM G48-02	Coated 0.01%	Uncoated 2.11%
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	< 50 g/l	
Adhesion Strength	ASTM D 4541-09	7.0 N/mm <sup>2</sup> Concrete	
Abrasion Test	ASTM D 1044-99	0.9% Before	2.85% After
Fire Retardant	ASTM E 84	Class A	
Elongation	ASTM C638-10	>200%	

