



# ThermU-Proof

## Insulation and Waterproofing Coating

### Description

SPARTAN ThermU-Proof is a cost effective heat shielding coating that used advanced insulation technology to reduce the interior temperature of buildings. ThermU-Proof is specially formulated on roof and walls by reflecting a large percentage of the radiant heat energy before it penetrates the building. This lower interior temperature and reduces energy cost for cooling the building.

### Uses

SPARTAN ThermU-Proof is ideal for exposed roofs and walls in both commercial and residential building.

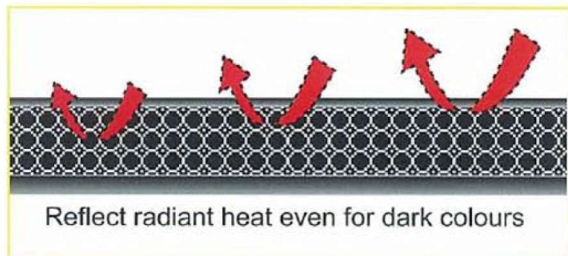
SPARTAN ThermU-Proof can be applied to most substrates, such as concrete, render, aluminium, steel, cement sheet, masonry, brick, wood, etc.

### Technical Data

|                      |  |
|----------------------|--|
| Elongation at break  | 260%   |
| Tensile strength     | 3.8Mpa   |
| Adhesion Strength    | 1.36N/mm <sup>2</sup>                            |
| Crack Bridging       |  |
| Method A             | No crack within 2mm                              |
| Method B             | No crack after 10cycles                          |
| Hardness Shore A     | 65   |
| Water Penetration    | No   |
| UV Exposure 2000hrs  | No disintegration, blisters, peeling or swelling |
| Heat Reflectance     | >99%   |
| Thermal conductivity | 0.09W/mK   |

### Advantages

- Easy to apply, Non toxic and Environmentally Friendly.
- Reduce Radiant heat in dwelling.
- Reduce energy consumption by cooling the building.
- Has anti mould and anti fungi properties.
- Elastomeric qualities and support multiple color.





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### Surface Preparation

All surfaces must be free of grease, oil and dust. Very smooth surfaces should be roughened for better adhesion. Loose rust, moss, lichens, crumbling cement, deteriorated fibre cement and degraded bituminous substances must be removed either mechanically or chemically. Surface faults such as blisters, holes and cracks should be cleaned out, then repaired with a flexible filler. Small hairline cracks can be painted with SPARTAN ThermU-Proof brush in, allow to dry, then repeat until filled or at least sealed. Adhesion to porous substrates can be improved by priming with SPARTAN AcrPrimer. This is recommended because these surfaces can be very weak and consequently when a coating of SPARTAN ThermU-Proof is pulled up, it actually tears away the surface to which it is bonded. Sealing with SPARTAN AcrPrimer greatly reduces this type of potential failure.

Rusty metal should be cleaned by blasting or other means to suitable standard then primed with a Rust Converter. Other metals should be suitably primed or treated, e.g. for new galvanising, degrease, etch or roughen surface before coating.

### APPLICATION

SPARTAN ThermU-Proof may be applied direct to all common building substrates, i.e. concrete, render, aluminum, steel, cement sheet, masonry, brick. Some priming may be required, depending on the substrate condition. (Please refer to our expertise)

Apply two or more coats to obtain recommended total thickness by brush, roller, spread bar or airless spray gun. Ideal application temperature is between 10- 30°C and relatively humidity 30 - 80% in rapid drying conditions, mask large areas into smaller zones to help obtain an even application and appearance.

### Packaging

20 Litres plastic pail.

### Shelf Life

Up to 12 months in unopened containers stored in a cool, dry place.

### Coverage

Flat Roofs:

500 micron dry film thickness i.e. 1.1 sq. metre / litre

Pitch Roof:

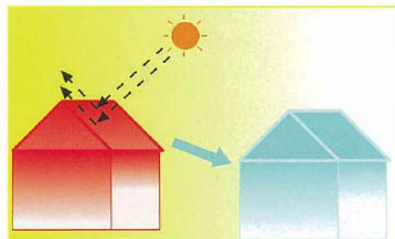
370 micron dry film i.e. 1.5 sq. metre / litre

Walls (smooth)

250 micron dry film i.e. 2.2 sq. metre / litre

### Clean up

Clean all brushed, rollers, trays, buckets & surrounding areas with clean water before the product sets.



Cools building and reduce energy consumption in cooling.

