

THERMO SHIELD®

thermal insulation coating

Boroondara City Council
Ashburton Library
Roof Refurbishment and Insulation





Rust Conversion | Waterproofing | Thermal Insulation | Asset Protection

Roof replacement is a highly costly procedure, which is often very much preventable.

The roof at Ashburton Library had widespread waterproofing issues and areas where water penetration was beginning to show initial signs of corrosion.

In addition – the heavily weathered roof sheeting had become highly unsightly and was affected by moss, mould and general grime over the heavily faded sheeting.

Rather than replacing the unsightly roof – Thermoshield was able to successfully treat the corrosion concerns, apply waterproofing membrane to problematic areas then apply two coats of the Thermoshield ceramic coating, leaving the roof appearing like new with the added benefits that come with the insulation coating!

HOW THERMOSHIELD DELIVERED A 'THREE FOLD' SOLUTION

Rather than replacing a roof, an application of Thermoshield ceramic coating can offer a solution that goes beyond simply prolonging the life of the roofing structure by offering:

- An effective barrier (membrane) against corrosive elements & waterproofing
- Thermal insulation, which results in significant energy efficiency savings
- Visually restore the unsightly roof, resulting in a new roof appearance

Thermoshield ceramic coating can eliminate the highly damaging effects of THERMAL SHOCK, or expansion & contraction. By significantly reducing the temperature fluctuations of the substrate, the metal sheets, screws & connections are not torn from each other.

The restoration process consisted of the following process:

- **Power washing** (minimum 3,500psi)
- **Rust Conversion**
- **Waterproofing** (applying high strength flexible micro-fibre membrane)
- **Etch priming coating** (to ensure maximum adhesion)
- **2 coats of Thermoshield** (to a wet film thickness of 500 micron)

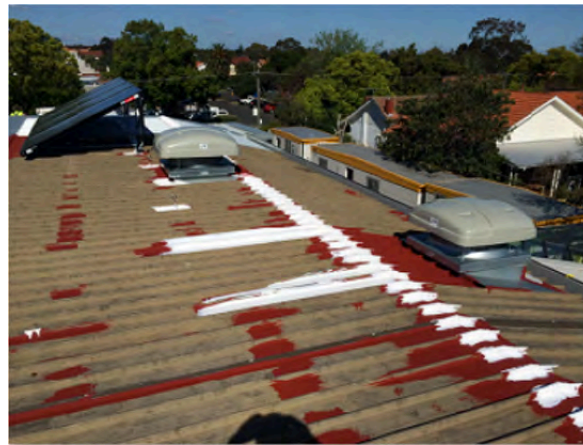
Below are two before / progress shots of the library roof - followed by two completed photos:



Below are a series of either before or progress shots, followed by two completed photos:

The photos show how the roof was treated for rust, conversion & waterproofing – prior to the Thermoshield coating:

BEFORE or PROGRESS SHOTS:



COMPLETED SHOTS:



Finally one last progress example of the library roof - followed by the accompanying completed photo:



To finish is a photo as to how the Ashburton Library from ground level, to the thousands of people that drive down High street, Ashburton each day! A result we at Thermoshield are delighted with!

