

PROJECT CASE HISTORY – Classic Collisions Workshop

COOLROOF COATINGS – Core Function

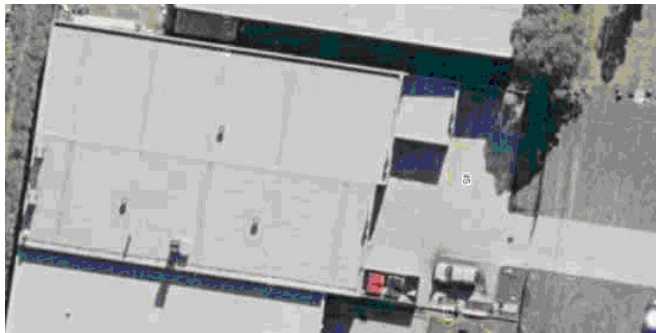
Due to their large surface area and exposure, Roof Surfaces capture enormous amounts of the sun's energy and thus COOL ROOFS offer potential cooling energy savings of 20-40%*, resulting in direct cost and green house gas emission savings

❖ Dulux® InfraCOOL™ technology works by maximising TOTAL SOLAR REFLECTION including the (invisible) infra-red portion of the sun's energy which accounts for over 50% of the sun's total solar energy



PROJECT INFORMATION

| | |
|----------------------|---|
| Project Name: | Classic Collision Resto Centre Workshop areas |
| ROOF AREA: | 700m ² |
| Location: | 45 Cranwell St Braybrook Vic 3019 |
| Application Date: | November 07, 01, 2010 (completion) |
| CoolRoof Applicator: | Frazko Improvements |
| Contacts: | Wayne Kolbl Manager 0419996116 |



PROJECT OBJECTIVES & SCOPE

Improve Productivity, (Reduce Early Finishes & Equipment Hire Cost) Worker & Customer Comfort, enable the use of amenities.

The area is a large open work shop that is not serviced by any air-conditioning. On frequent high temperature days working conditions became unbearable and workers were sent home early

Project Aspect:
Flat Deck Roof Structure – MAXIMUM SOLAR ABSORPTION

EXTERNAL ROOF: Uncoated Weathered zincalume flat deck
With sisilation

COATING SPECIFICATION

Surfaces – Zincalume generally in good condition with no corrosion.

"Flat" deck sections provided adequate run-off to prevent water ponding.

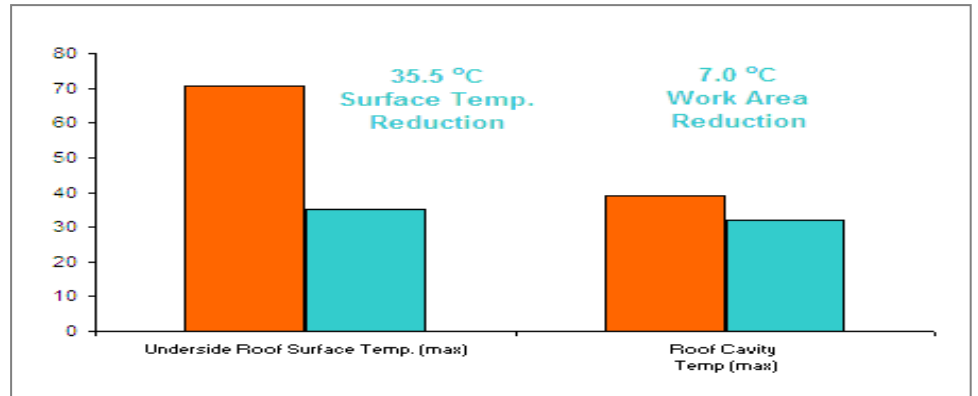
| | |
|--------------------------|---|
| Surface Preparation | High Pressure Wash |
| PRIMER | Dulux MetalShield Etch Primer |
| HEAT REFLECTIVE MEMBRANE | Dulux COOLROOF Cool Roof White with InfraCOOL™ Technology |



InfraCOOL™ ... Colours that shield from the sun

Classic Collisions Workshop – ACTUAL DELIVERED BENEFITS

- ❖ Immediate drop in Roof Surface and Ceiling cavity temperatures as evidenced from actual project Temperature Data monitoring
- ❖ Improved Occupancy comfort levels :
 - Immediate feedback from centre staff acknowledge the internal cooling effect of between 5-10°C cooler



PROJECT TEMPERATURE MONITORING

Temperature Data loggers were installed to monitor PRE and POST application conditions including

- ❖ ROOF SURFACE (underside)
- ❖ Upper Work Area Air Space

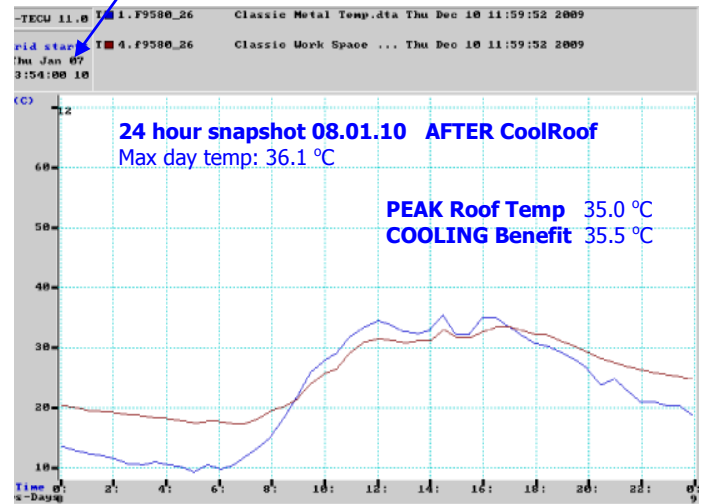
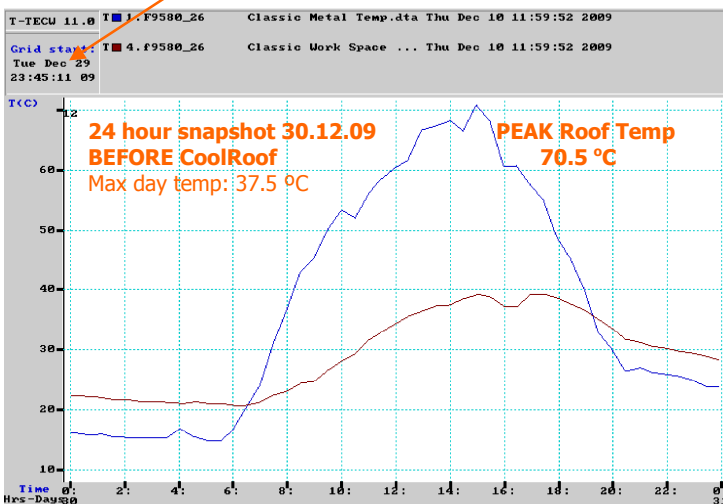
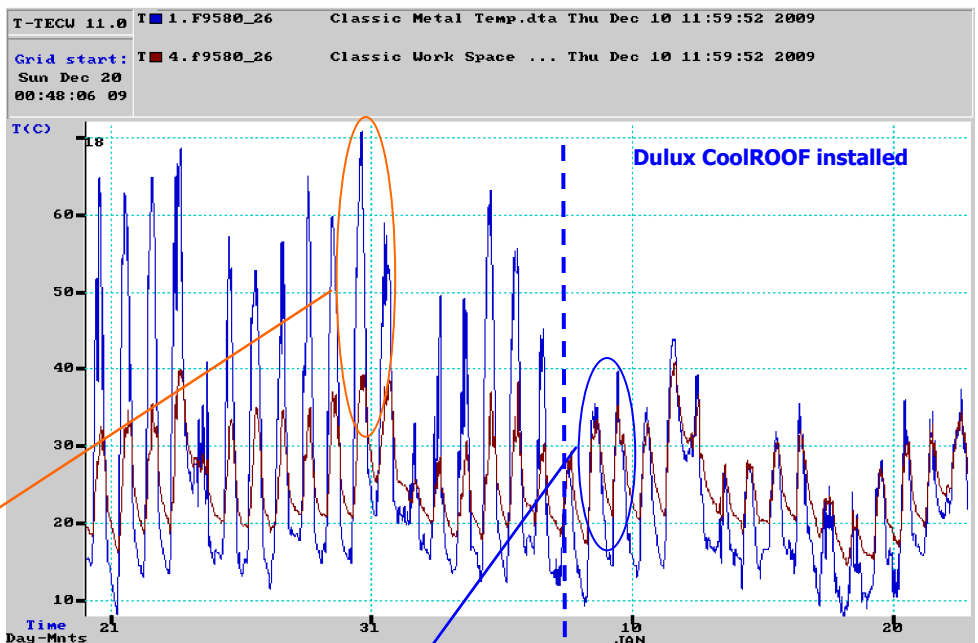
Data loggers recorded temperatures at 30 minute intervals from the period

- ❖ Start : 19.12.2009
- ❖ End : 25.01.2010

Bureau of Meteorology records for air temperature, wind speed & sunshine hours were accessed to correlate data for the purpose of like day comparisons

- ❖ 30.12.2009 (Before CoolRoof)
- vs.
- ❖ 08.01.2010 (After CoolRoof)

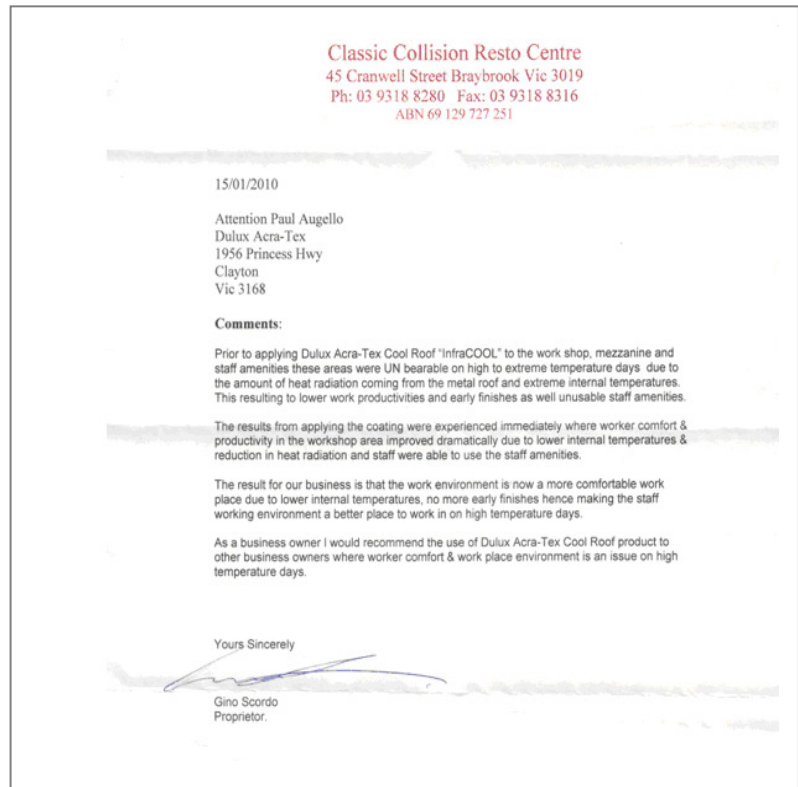
were selected for specific 24 hour "like for like" comparisons



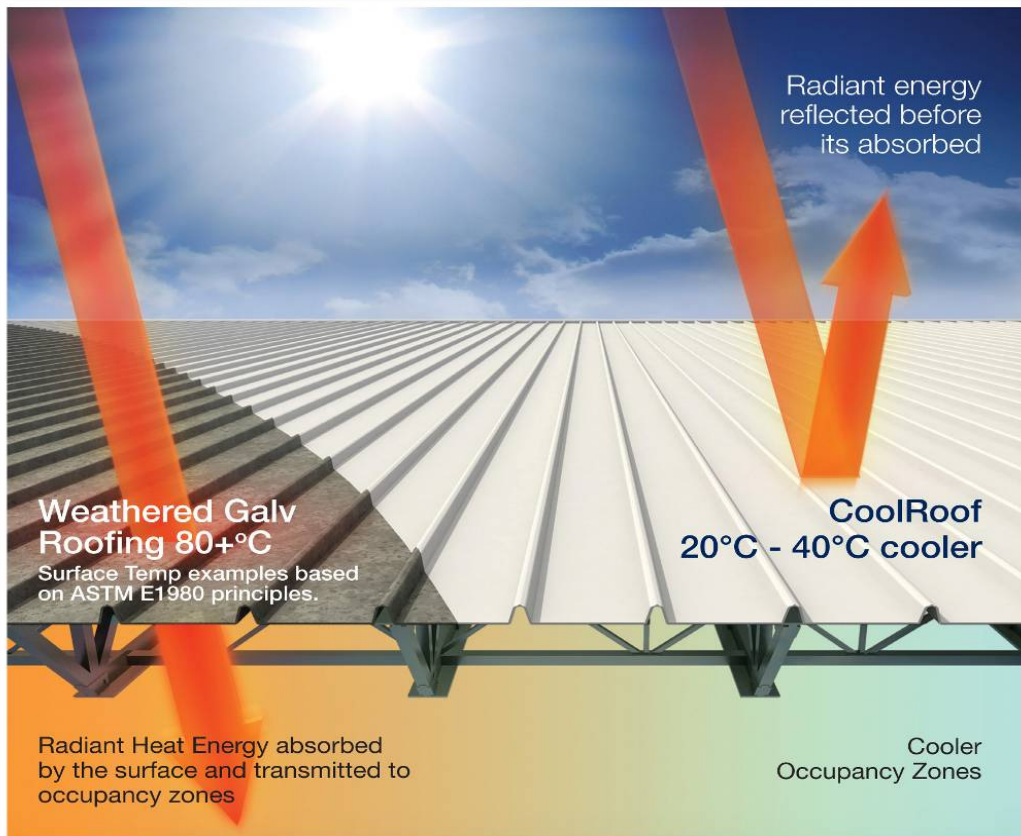
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Customer Endorsement

"The results from applying the coating were experienced immediately where worker comfort & productivity in the workshop area improved dramatically"



The benefits of CoolRoofs



Maximum Solar Reflection

Weathered Galv and Dark Coloured roofs absorb massive amounts of solar radiation which in-turn transmit heat into occupancy zones. CoolRoofs reflect heat energy in the first instance - before heat is absorbed, meaning insulation & cooling efficiencies are maximised

Reduced Cooling Costs

Less Heat penetration means lower cooling costs. Comparative studies identify cooling energy savings of 20-40% are possible using CoolRoof technology.

Improved Occupancy Comfort

In non-airconditioned facilities such as workshops and warehousing, cool roofs translate immediately to cooler working and warehousing facilities, improving productivity and stability of stored goods.

Lowers Carbon Footprint

Less use of airconditioning reduces power consumption and associated greenhouse gasses which is good for the environment and for you.

Further reading: Reducing Urban Heat Islands: Compendium of Strategies – US EPA, Geo-engineering, adaption and CO2 mitigation – Climate Progress US

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