

Innovation Awarded

Tiger Profiles & Insulation LLC, exclusive distributors of SolaCoat and SolaSteel to the Middle East, Asia and Africa, bagged the First Gold GAIA Award at this year's Construction Awards.



Bernard Nasr (centre) Executive Director of Tiger Profiles & Insulation receiving the first Gold GAIA Award from Simon Mellor, VP, DMG International – Construction Sector (right), accompanied by Les Crampton, Managing Director, CoolShield International.

The evening of the 5th of November marked a prestigious cause for celebration at the Westin Hotel in Dubai, for the most prominent members of the Construction Industry in the region. Contractors, consultants, engineers, architects and the industry's suppliers were witnesses to the announcement of the award winners of several categories. This year the Construction Awards included a new category – the GAIA Award for

products that prove to reduce the negative impact on the environment. Amongst hundreds of applications for this very highly regarded award were Tiger Profiles & Insulation LLC, Exclusive Distributors to the Middle East, Asia and Africa of SolaCoat and SolaSteel.

The Gold Award was presented by **Simon Mellor, Vice President, DMG International** to **Bernard Nasr, Executive Director, Tiger Profiles & Insulation LLC**, who was accompanied by Les Crampton, Managing Director, CoolShield International, the Australian manufacturers of the award winning product. The Gold winning product, SolaSteel, is a heat reflecting paint that is applied on to metal coils before they are manufactured into profiles and panels for the cladding industry.

Two Silver awards also went to Tiger Profiles & Insulation LLC for the SolaCoat heat reflective coating and the SolaCoat heat reflective and non slip-waterproof pavement coating.

Looking back

Tiger Profiles and Insulation LLC, TPI, was established in 1994 as a member of the Tiger Group of Companies established in the United Arab Emirates in 1968. TPI is a primary source for the design and supply of the cold formed and insulated metal building components for roofs,

walls, false ceilings, standing seams (T-Seam®) and floor decks. A one-stop-shop for construction related metal requirements; TPI has always aimed at ensuring that clients are always given the highest priority.

TPI manufactures, supplies and installs: cladding materials, roof panels, wall panels, floor decking panels, standing seams, T-Seam®, steel and aluminium profiled sheeting, partitioning, composite sandwich panels, cold store panels, standing seam systems, cold roll forming, fasteners, bolts, nuts and a range of cladding and profile materials and products. Besides maintaining its existing product line, and constantly seeking innovative upgrades to existing products, TPI has developed, and recently introduced, together with its principals, SolaCoat; a new option to the insulation of panels.

SolaCoat, originally an Australian product, represented by its Australian principals, CoolShield International, is a water-based paint, that provides a Radiant Barrier Insulation coating that reduces temperature. SolaCoat is the most efficient and most cost effective form of heat insulation commercially available today. It is a waterborne acrylic emulsion based product, which has a special membrane additive which aids in rejecting of the infra red rays from the sun.

As exclusive distributors of SolaCoat in the Middle East, Africa and Asia, TPI offers its cladding clients the option of applying SolaSteel to a single skin panel when clients are in need of keeping the heat out of areas that are not air-conditioned, and it can be applied, in a number of forms, to a PU sandwich panel to provide maximum heat insulation from external heat, and the highest levels of solar reflectivity while providing maximum efficiency in keeping up with insulation.

How SolaCoat works

SolaCoat works by reflecting solar energy from the surface to which it is applied. Long term testing has shown that for a galvanised iron or colourbond steel roof, application of SolaCoat to the exterior surface will reduce the heat load to be removed by the air conditioner, by reducing the surface temperature of the

roof as much as 40°C. Power savings for a typical building with a roof area of 10,000 sq m could be expected to be 100,000 Kwh per year or more. This would give a reduction in greenhouse gas emissions for this building alone, of about 100 tonne per annum.

SolaCoat requires little energy in production and has the economic benefit of a payback period of 4 to 5 years. In addition, it does not require any special technology to apply, and cost and environmental benefits start immediately with minimal ongoing cost and maintenance demands. Should the use of SolaCoat be factored into the design of a new building, a further reduction in the payback period could be expected.

SolaCoat has evolved from being a heat insulating paint applied to roofs to a fully integrated and highly innovative product line that caters to an expansive range of requirements and provides infinite solutions to heat resistance problems around the world.

These products are divided as follows:

SolaCoat Glossy Acrylic Coating: This Silver GAIA Award winner provides a premium, high opacity acrylic paint finish originally designed for moderating temperature extremes on exterior metal surfaces. Its tough, flexible finish gives long lasting protection against weathering, excellent resistance to mould and fungal growth in addition to excellent adhesion, flow and quick drying (same day recoat). SolaCoat Gloss Acrylic may also be used on interior/ exterior surfaces.

SolaCoat Cool-It-Cream Heat Reducing Coatings: This is a range of highly durable, selected topcoat colours for use on roofs where lowered roof temperatures due to better heat management are combined with appealing conventional roofing colours. The cutting-edge technology used in the coating colours permits significantly lower heat ingress to penetrate the under-roof space which then radiates through into the living/working spaces of homes and buildings while maintaining maximum durability and service life of the roof coating and the actual roofing material. Dependent upon the colour selected, temperature reductions inside the living/ working areas can be between 8 - 12°C cooler than with similar colours made using traditional roofing coatings. This reduced heat influx through the roof cavity can then be translated into much reduced demand on air-conditioning power units resulting in actual cost savings and also green-house gas emissions through reduced electricity generation.


SolaSteel Metal Coating: This Gold GAIA Award winner is the world's first commercially available pre-coated water-based acrylic metal sheeting for roofs,

walls and other applications that has significant advantages over current existing pre-coated material. Named SolaSteel in honour of the first successfully tested metal that was coated with this paint, the name should in no way be taken as an indicator that its paint is only compatible with steel. On the contrary, SolaSteel has been proven to be successfully and efficiently compatible with a range of metal components such as aluminium, galvanised iron and others. SolaSteel helps provide more comfortable working conditions, lower cooling costs and subsequent Greenhouse gas emissions. Amongst its many competitive characteristics, SolaSteel has been proven to provide high heat reduction coating and rejects 74.1 per cent of the sun's Solar Rays from the surface, providing much lower heat build-up in buildings. It also eliminates or minimises the need for insulation in Zone 1 Climates.

SolaCoat Heat Reflective & Non-Slip-Waterproof Pavement Coatings: This Silver GAIA Award winner is a new technology, water based coating specifically designed to give a hard wearing, non slip and waterproof surface and with minimal heat absorption characteristics to pedestrian walk areas, broad-area pedestrian areas and when top coated with SolaCoat Clear Sealer can be used in light vehicle traffic areas and parking lots.

SolaCoat Pavement Coatings also provide a non-slip and waterproof surface under both wet and dry conditions. These enhanced benefits are unique to SolaCoat Pavement Coatings and would contribute significantly to comfort conditions in paved areas in resorts, swimming pool areas exposed shopping malls, car park surrounds etc.

The colour fade resistance of SolaCoat Pavement Coatings is around 15 years and with correct application and maintenance would give around 5 -10 years coating service-life dependent on usage etc. Should repairs be necessary, the coating system can be easily "touched up" to effect the necessary maintenance. This is a low cost alternative to replacing existing paved areas with an attractive low heat absorbing, non slip and waterproof surface without the unattractive grimed appearance of grit blasted tiling.

SolaCoat is capable of catering to a range of needs and solar reflectivity requirements, and is guaranteed to accommodate the hottest sun and the brightest rays. By winning the Gold and Silver Awards and in parallel to certification by Ecospecifier International as being Green products, SolaCoat and SolaSteel have been further asserted as certified Green products that comply with the Green Laws of the UAE. 



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