

# AmcanColors

*For all Seasons*



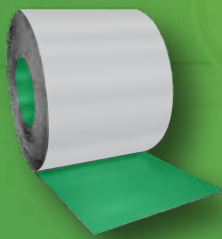
## DuraTherm

Heat regulation coatings

Your Sustainable & Durable Roofing Solution



*Dedicated to Quality Excellence*



## DuraTherm

**Who can think about saving energy yet at the same time provide you with a ready made, good looking thermal solution?**

Architects are now equipped to manage energy in buildings.

The aesthetic, thermal and economical qualities of DuraTherm coatings make thermocoated roofs, cladding, doors and shutters weather durable.

Discover the solution which will not only improve heat regulation and reduce air conditioning costs and fossil fuel consumption but also add colour and an original design to the landscape.

DuraTherm thermal control coil coatings provide a cost-effective solution to the problem of thermal energy transfer in metal clad structure.

Duratherm reduces costs of air conditioning and heating, improves thermal comfort and, in certain jurisdictions, may qualify for rebates.

DuraTherm benefits the environment through reduced consumption of fossil fuels, reduced peak energy loadings, reduced "heat-island" effect and increased product's lifetime.

DuraTherm offers architects and designers a wide palette of solar reflective colours.



## DuraTherm's 3 Actions

“DuraTherm coatings reduce the temperature by about 10°C!”

### LOWERING THE TEMPERATURE

Today everybody wants dark colours but they are the most sun's energy absorbing. By using DuraTherm you will be able to reduce heat absorption on cladding and thus reduce indoor temperatures by 5°C to 10°C making the interior more comfortable.

### REDUCING ENERGY CONSUMPTION

By optimising energy reflection properties from the solar spectrum, DuraTherm reduces air-conditioning consumption when used in construction (cladding, roofing, etc) and reduces the carbon footprint, providing an economical and ecological solution.

### PROVIDING MATERIAL DURABILITY

By maintaining a lower surface temperature of buildings, DuraTherm reduces thermal tension in the metal, thereby increasing durability of the structure.

# Proof in Figure

Lab tests prove the efficiency of DuraTherm: Surface temperatures (80°C) are reached by adjusting the distance between an infra red light and a panel coated with traditional paint. The surface temperature of the panel coated with DuraTherm is then measured using the same criteria.

SHADE	Surface Temperature	
	Without DuraTherm	With DuraTherm
Dark Green	80°C	72°C
Mid Grey	80°C	67°C
Dark Brown	80°C	71°C
Dark Blue	80°C	68°C

\* Duratherm coatings reduce the temperature by about 10°C!

Solar load is an increasingly important part of envelope design in many areas.

Solar can be moderated by judicious choice of external coatings. Poor choice of coatings can raise the temperature of a roofing barrier by tens of degrees, needlessly adding to the solar load on the building.

Amcan's DuraTherm "Cool Roof" system showed that improvements could be made to:

- reduce coating cost
- improve thermal control across the whole spectrum for greater energy savings
- provide thermal control in both hot and cold environments for further savings in operating costs
- widen the darker colour palette.

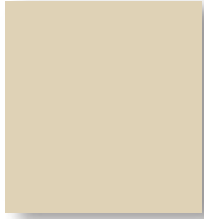


## Clean & Fresh Technology

DuraTherm's revolutionary self-cleaning paint system acts as a barrier to prevent dirt from adhering and then embedding into the paint film. The coating surface also helps to disperse the water effectively. Hence, any loose dirt particles are easily washed off by the wind and rain, keeping the coating clean and the colour looking fresh.



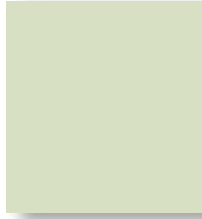
# Colour Palette



Lemon Sherbet  
SRI:81



Cobblestone  
SRI:64



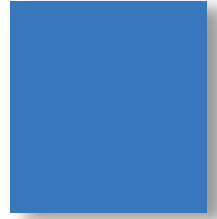
Pomelo  
SRI:83



Bee Pollen  
SRI:60



Tangy Orange  
SRI:51



Blue Danube  
SRI:42



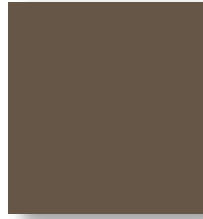
Glacier Cave  
SRI:67



Casablanca  
SRI:56



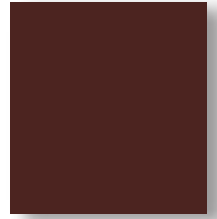
Winter Melon  
SRI:41



Antique Brown  
SRI:33

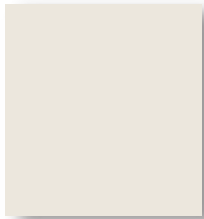


Brave Heart  
SRI:31



Raspberry  
SRI:25

## Classic Matte Series



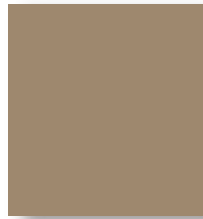
Snowflakes  
SRI:83



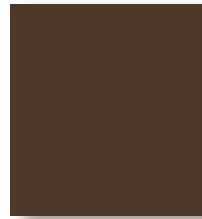
Flamingo  
SRI:54



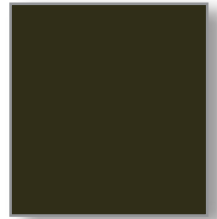
Sunrise Red  
SRI:40



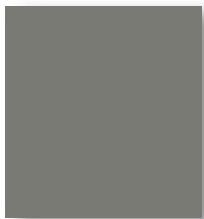
Oak  
SRI:54



Mocha Fudge  
SRI:30



Slate Grey  
SRI:27



Optimistic Grey  
SRI:46



Neptune  
SRI:29



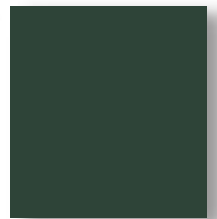
Kingfisher  
SRI:29



Flame Blue  
SRI:22



Nile Green  
SRI:39



Aspen Green  
SRI:25

\* Solar Reflectance Index (SRI) is computed according to ASTM E1980 on the basis of medium convection coefficient of  $12\text{Wm}^{-2}\text{K}^{-1}$ . This data is an indication calculated based on the selected substrate and may vary depending on the type of substrate used.



Thickness : \_\_\_\_\_

Colour : \_\_\_\_\_

Approval : \_\_\_\_\_

www.amcan.com.my



**Amcan Color Coating Industries Sdn Bhd**

**Factory/Head Office**

Lot 779, Block 7, Jalan Demak Laut 3,  
MTLD Sejingkat Industrial Park,  
93050 Kuching, Sarawak,  
Malaysia.

Tel : +6082 432 323

Fax : +6082 432 828

E-mail : info.factory@amcan.com.my

**Sales & Marketing Office**

Lot 337, Section 54, KTLD,  
Jalan Padungan,  
93100 Kuching, Sarawak,  
Malaysia.

Tel : +6082 421 373

Fax : +6082 232 077

E-mail : info@amcan.com.my