

# Why are Energy Star Coatings MORE DURABLE ?

The selection of the energy efficient roofing translates into lower internal building temperatures and less urban heat build-up. Air conditioning power consumption is reduced along with green house emissions.

Heat and moisture are the two main contributing factors that accelerate the degradation of exterior coatings. In highly humid, tropical environments, conventional acrylics have been known to last as little as three years. In Australia some dark metal roofing can start to change colour and fade from it's original depth within 3 years.

Energy Star coatings have increased durability and life expectancy compared with conventional paints. Independent laboratory testing to ASTM Standards confirmed Solar Reflectance Indexes of 241% greater than normal paints on a dark colour of Charcoal.

Heat generated by Solar Radiation from the sun is a major contributing factor to exterior coating degradation, especially in a standard dark colour.

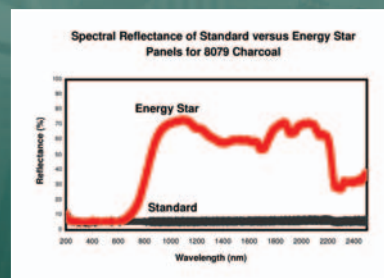
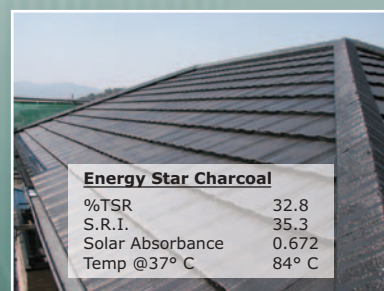
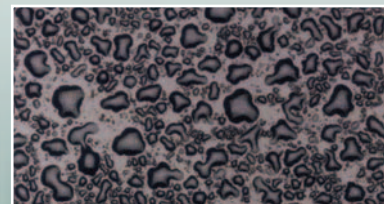
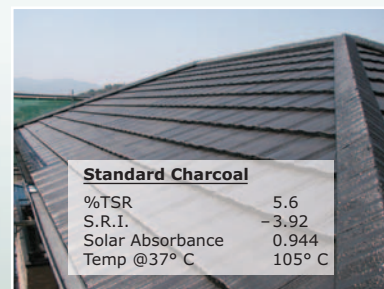
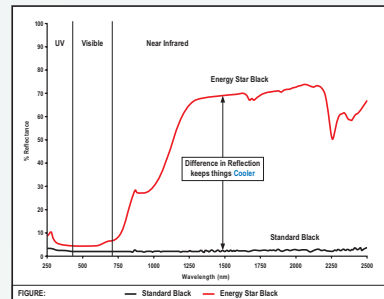
Energy Star Coatings will remain cool even in a *Black*. After exposure to 2800hrs of UVB 313/Moisture testing, in accordance to ASTM G53-96, the gloss, depth of colour, adhesion and film integrity remained un-changed, providing a performance increase of more than 400% when compared to a standard exterior 100% acrylic.

Quite simply, the less heat on the coating the longer they last.

Moisture is the second major contributing factor to exterior coating degradation, especially in water based acrylic coatings. Atmospheric moisture enters the coating film on a daily basis and swells the coating, greatly reducing it's life.

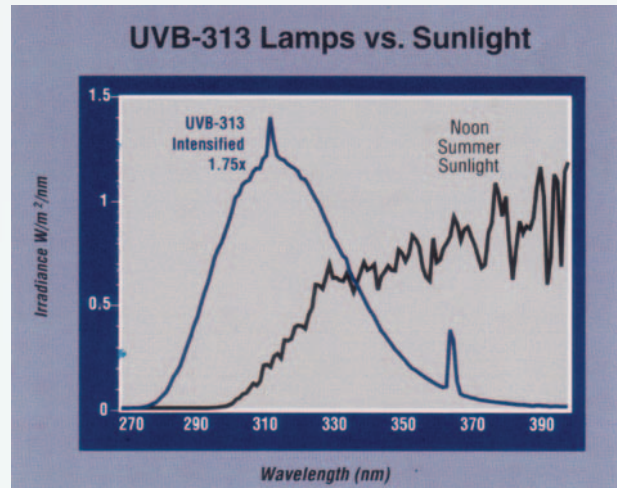
Because the silicones used in Energy Star Coatings stop the ingress of moisture to the coating film, the coating does not swell and will last 400% longer than standard acrylics. Simply put, the less moisture that the coating film has to tolerate the longer it will last.

Astec Energy Star Coatings are the most advanced and functional coatings available in Australia. They provide high Solar reflectivity in dark colours, excellent resistance to moisture and remain clean and free from the effects of weathering longer than any other exterior premium paints.

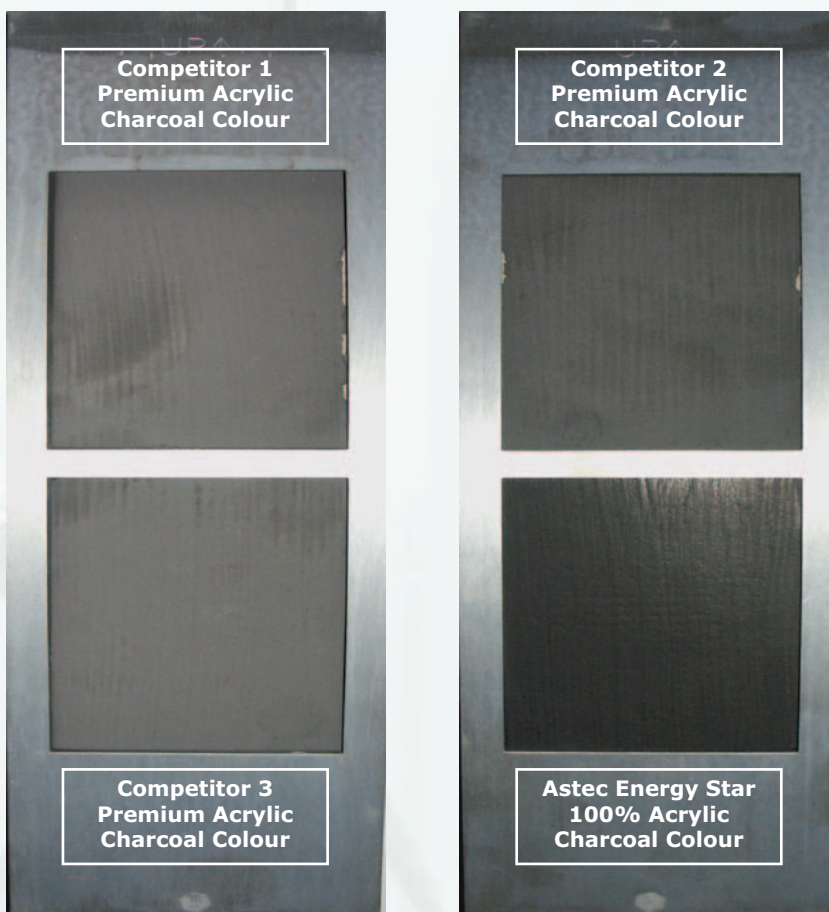


## Why are Energy Star Coatings MORE DURABLE ? Cont...

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Solar radiation accelerated weathering exposure of 2800hrs, UVB 313/Moisture testing, in accordance with ASTM G53-96 standards.



All four samples were identical in colour at the beginning of the test cycle. At the end of the test cycle all premium acrylics had chalked and lost their original depth of colour. Whereas the Astec Energy Star acrylic retained it's gloss, mechanical properties and original depth of colour.

The added durability of Astec Energy Star Coatings translates into savings for the consumer from longer maintenance cycles, less substrate damage from solar radiation and most importantly building exteriors retain their aesthetic appeal far longer than with conventional exterior paints.