



eSolar-Shield[®] Paint

Many commercial anti-solar, polymer resin-based paints tend to be highly flammable and emit high levels of toxic volatile organic compounds (VOCs) during paint mixing and after the paintwork is completed. They also have poor weathering properties and are highly prone to mildew attack.

To help the building industry overcome this problem, EWTCOI researchers have developed a 100% VOC free and green (inorganic) anti-solar paint called **eSolar-Shield[®]** with a unique combination of fillers shielding the building façade from being warmed by solar heat during daylight hours. Industry-standard JC/T 235-20081 testing shows that it can reduce the temperature of a concrete surface by 5°C compared with commercially available anti-solar paints. It has also been tested for fire proofing, mildew resistance and is able to withstand the harsh, hot and humid weather of the tropics. A group of local SMEs are setting a joint venture startup company to refine and commercialise this product.

EWTCOI has the expertise to partner you to explore technology that enhances your product offerings.

Key Features & Benefits

- At least 5°C reduction in building façade temperature in laboratory environment
- Excellent fireproof properties
- 100% VOC free
- Weather resistant
- Mildew resistant

Applications

- Painting and coating building exteriors

Common issues with traditional polymer based paint



Molding



Peeling



Flammable



Heat absorbing

Temperature curve of EWT Antisolar Vs Commercial Antisolar paint

