

Coating.

Advanced technologies



Overview.

We specialise in using various thin film coating techniques including magnetron sputtering, thermal evaporation and various forms of customised plasma-enhanced chemical vapour deposition.

The wide scope and capability of our coating processes allow substrates of various sizes and geometries to be 3D-coated with precision and speed at a low cost.

We have the ability to create engineered surfaces using custom-design coatings and interfaces for decorative and functional applications.

Capabilities.

- Liquid silicon hardcoats for abrasion resistant, environmentally durable and transparent coatings on plastic substrates that can be deposited using dip or spray methodologies
- Thermal evaporative metallisation of aluminium on plastic substrates
- High-rate, high-throughput sputtering for single or multi-layer deposition of metal or metalloid coatings that include chrome, aluminium, titanium, indium, silicon, germanium and numerous alloys
- Reactive sputtering of metal oxide/nitride and silicon oxide/nitride coatings
- Organic coatings deposited using PE-CVD (Plasma-Enhanced Chemical Vapour Deposition) using multiple systems across a range of frequencies
- Thickness range from 5 to 100's of nanometres with tight tolerances on complex geometries, depending on application, approaching $\pm 2\text{nm}$.

Quality.

To ensure optimum quality, surface finish and performance, all key processes – from moulding to vacuum metallising - are performed under environmentally controlled conditions in clean rooms.

Advantages.

Strong fundamental coating design, research and development capabilities, strengthened with a long-term collaborative partnership with the University of South Australia's Thin Film Coatings group at the Future Industries Institute.

Contact us for more information.