

Sparc to Commercially Manufacture Graphene Additive Coatings Products

HIGHLIGHTS

- ▶ **Commercial manufacturing process developed for the production of graphene based additive products**
- ▶ **Specialised graphene based additive manufacturing equipment identified, trialled and ordered with a manufacturing site located**
- ▶ **Graphene based additive samples from manufacturing trials now available for customer testing**
- ▶ **Collaborative discussions advance with multiple global coatings companies**
- ▶ **Patent filing activities continue for IP protection**
- ▶ **Undertaking testwork in specialist graphene coatings for the hydrogen energy sector**

Sparc Technologies Limited (ASX: SPN) (Sparc or the Company) is pleased to advise that significant progress is being made in a number of key business areas that will combine to ensure the successful commercialisation of Sparc's graphene additive coating products.

Sparc Managing Director, Mike Bartels, commented:

"Our path to commercialisation is now clear with detailed discussions progressing with global coatings companies. Comprehensive test data, undertaken to ISO standards, has now been shared under Confidentiality/Non-Disclosure Agreements and Material Transfer Agreements. Sparc has been able to demonstrate its know-how in addressing industry acknowledged challenges in the production of homogenous graphene dispersion having developed a proprietary manufacturing process for the commercial manufacture of graphene based additive products.

Sparc is now poised to undertake the manufacture of graphene based additives on a commercial scale supporting coatings companies generating significant revenue from products targeting anti-corrosive end uses.

Graphene Based Additives

One of the key challenges the graphene industry has faced, is that of successfully incorporating graphene into targeted materials. Graphene tends to re-agglomerate and as such homogenous dispersion is vital if graphene is to impart its unique and varied attributes when incorporated into targeted materials. This challenge was recognised by Sparc and through a range of unique processes, Sparc has now addressed this issue which will benefit not only coatings companies, but those companies involved in composite materials.

Given this know-how, Sparc is investing in a manufacturing process, with manufacturing equipment having been identified, trialled and ordered with a manufacturing site located. Manufacturing will support a range of marketable graphene based additive products for the coatings and composites industries. This work is being supported with marketing collateral i.e., branding and trade-marks. Patent filing activities continue with all *Graphene Based Additive* IP to be protected.

An on-going comprehensive testing program continues to reinforce the significant performance improvement in epoxy coatings via the use of Sparc's Graphene Based Additives. Sparc has produced samples from manufacturing trials that are available for customer testing.

Along with samples being made available, Sparc has continued to meet with and present to major coatings manufacturers. Sparc has developed considerable expertise in the characterisation, formulation, adoption and manufacture of graphene based additive products; expertise that is increasingly recognised within industry. The Company is inviting additional customers from within the Building Materials sector to collaborate and explore the opportunities provided by graphene for product enhancement.

As previously announced, Sparc is continuing with the development of a number of graphene based coatings' applications in the energy sector, particularly in relation to Sparc's photocatalytic hydrogen project in its JV with the University of Adelaide and Fortescue Future Industries (FFI).

The company is looking forward to providing significant updates on all projects in the second half of 2022.

-ENDS-

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About Sparc Technologies

Sparc Technologies Limited (ASX: SPN) is a South Australian based company that is focussing on the development of innovative technology solutions.

Graphene, which is a major focus for Sparc, can be extracted from graphite, it is a 2-dimensional nano material made of carbon atoms arranged in a hexagonal pattern, giving it unique and powerful properties that, with the right technology, can be imparted on products to improve performance. Sparc is commercialising a number of graphene products in industrial materials applications, as well as health.

Sparc is also focussed on developing thermo-photocatalytic green hydrogen technology that does not require solar and/or wind farms, nor electrolysis as with conventional green hydrogen.