

25th November 2021

Nanotechnology coatings developer launches PureGRAPH[®] enhanced conductive coating

HIGHLIGHTS

- **Nanotechnology developer Protectology Ltd launches PureGRAPH[®] enhanced conductive line of coatings, PROGRAPH[®]**
- **Representation agreement signed with Protectology to exclusively promote PureGRAPH[®] enhanced coatings**
- **Expands sales reach and representation into the coatings sector**

First Graphene Limited (ASX:FGR; "First Graphene" or "the Company") is pleased to announce it has signed a representation agreement with Protectology Limited (Protectology) to grow a defined set of clients in the conductive coatings market.

UK based Protectology is an innovator and developer of surface protective coatings, using nanotechnology to enhance the properties of a broad range of products including consumer electronics, automotive and industrial parts.

Protectology has been working with First Graphene for several months to research and develop coatings utilising the Company's PureGRAPH[®] product line. The work has resulted in Protectology launching its own product family branded as PROGRAPH[®].

Now, Protectology is collaborating with several early adopter industry clients to develop novel surface protective coating solutions for anti-static and electrically conductive applications. As the first of these collaborations, Protectology has launched a sprayable conductive coating for plastic surfaces.

Plastics are poor conductors of electricity and inherently accumulate dangerous static charge. The PROGRAPH[®] conductive coating dissipates the static electric charge, prevents detrimental effects on electronic and electrical equipment, and facilitates the protection of infrastructure installations such as cable networks.

In addition, final steps are being undertaken on a range of PROGRAPH[®] coatings, with PureGRAPH[®] conferring fire retardant properties as well as the opportunity to expand into adjacent industries including composites.

Under the representation agreement, Protectology is subject to a "best endeavours" obligation to actively grow commercial opportunities for its PROGRAPH[®] range of products, which in turn will translate into a PureGRAPH[®] supply agreements. There is no minimum supply contract in place as part of the agreement.

The agreement also marks First Graphene's first commercial agreement with a company focused on the lucrative European market.

The global antistatic coatings market is projected to reach ~\$17bn at a CAGR of 3.3 per

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cent by 2027, due to an increasing growth of the electronics, construction, and transportation markets¹.

Research has shown that PureGRAPH[®] can be used to produce electrically conductive coatings. Whilst further testing has shown that PureGRAPH[®] graphene can be used to make durable coatings with good weather resistance.

The term of the representation agreement is for an initial period of two years and gives Protectology the opportunity to develop commercial prospects, using PureGRAPH[®] technology for surface protective coatings going forwards. There are no other material terms of the agreement or an assessment of economic impact at this stage.

First Graphene Managing Director and Chief Executive Officer Michael Bell said the agreement was a major strategic step into the coatings market and represented one of many opportunities for the PureGRAPH[®] product line to be incorporated into readily marketable downstream products.

Mr Bell said: *"The partnership with Protectology enables us to further support the great work completed by Protectology in the development of this exciting market and through a number of valued clients. It's only the first step into a potentially huge and fast-moving market for PureGRAPH[®]. The launch of a PureGRAPH[®] enhanced downstream product line, coupled with the opportunity to enter the European market have the potential to open the way to multiple new commercial revenue streams in the future."*

Protectology Managing Director Paul Fairhurst said he expects the use of PureGRAPH[®] in the coatings market to be a revolutionary step forward in protecting parts, products and functions across a very diverse range of industries and materials.

Mr Fairhurst said: *"In line with our existing nanotechnology-based business, the partnership with First Graphene, and the assurance of continuity of supply, enables us to advance a number of opportunities with our client base. The use of graphene in protective coatings is revolutionary and creates a new standard of reliability and protection to various applications and products."*

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About First Graphene Ltd (ASX: FGR)

First Graphene Ltd. is the leading supplier of high-performing, graphene products. The company has a robust manufacturing platform based upon captive supply of high-purity raw materials and an established 100 tonne/year graphene production capacity. Commercial

¹ <https://www.360researchreports.com/global-antistatic-coatings-market-18327458>

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applications are now being progressed in composites, elastomers, fire retardancy, construction and energy storage.

First Graphene Ltd. is publicly listed in Australia (ASX:FGR) and has a primary manufacturing base in Henderson, near Perth, WA. The company is incorporated in the UK as First Graphene (UK) Ltd. and is a Tier 1 partner at the Graphene Engineering and Innovation Centre (GEIC), Manchester, UK.

PureGRAPH® Range of Products

PureGRAPH® graphene powders and **PureGRAPH® AQUA** pastes with lateral platelet sizes of 50µm, 20µm, 10µm and 5µm, as well as **PureGRAPH® MB-LDPE 20-30** and **PureGRAPH® MB-EVA** masterbatches for thermoplastics, and **PureGRAPH® MB-EVA Bitumen** masterbatch, are available in tonnage volumes. The products are high performing additives, characterised by their high quality and ease of use.

About Protectology Ltd

Combining nanotechnology with innovation, UK-based Protectology Ltd designs products and solutions around lifestyle. With nanotechnology at the very centre of what the company does, its products are designed to protect any surface, including multimedia devices and automobiles.

Boasting unique characteristics and exciting results, Protectology develops new and innovative products within the space of surface protection.

The company's ever-growing range of nano-protective products are the most advanced in the industry.

More information: www.protectology-uk.com

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Trading Symbols

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Frankfurt: FSE:M11

USA OTCQB: FGPHF

With authority of the board, this announcement has been authorised for release by Aditya Asthana, Chief Financial Officer and Company Secretary.