



newGen Group Contract Introduces PureGRAPH™ into the Cement Industry

Highlights

- Amour-GRAPH™ product range being launched by newGen, using the PureGRAPH™ graphene materials, for mining equipment
- Customer base for Amour-GRAPH™ and PureGRAPH™ expanded to include the largest cement manufacturer in WA
- Expectations of strong penetration into larger markets for polyurethane liners as benefits are demonstrated in industry

Advanced materials company, First Graphene Limited (“FGR” or “the Company”) (ASX: FGR) is pleased to report continued success with its strategy of engaging with industry to develop new products that use its PureGRAPH™ range of graphene products. By working with customers directly, rather than acting through selling agents, the Company is forging strong relationships that will stand it in good stead going forward. We continue to build our reputation as a reliable supplier of quality graphene based on the PureGRAPH™ range, making First Graphene the go-to company for industries wanting to benefit from the addition of graphene to their product range.

In the latest development, the Company is pleased to confirm further progress in its R&D collaboration with newGen Group. newGen will supply a wear lining system for dryer chute applications to a large Australian cement producer in their Perth facility. They are a leading supplier of cement and lime to the Western Australia’s mining, agriculture and construction industries.

Each 50m² liner will contain 10 to 12kg of PureGRAPH™ and is a further significant step in the adoption of First Graphene products into large industrial applications. It is expected the liner will be cast and installed in December 2018.

Background

As previously reported FGR is working closely with newGen Group to provide performance enhancement to their existing products with the addition of PureGRAPH™ graphene products. newGen Group have recently introduced a branded Amour-GRAPH™ product range of wear liners for bucket wheel, pipe spools and conveyor applications.

Previously, First Graphene and newGen have successfully introduced the PureGRAPH™ range to reclaimer bucket liners, general liner applications and pipe spooling. Subject to regulatory approvals newGen intend to introduce the PureGRAPH™ range of products progressively to all wear-related products. This fits well with First Graphene’s stated objective to introduce PureGRAPH™ product range into bulk use applications within the near term.

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ASX Symbol

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Managing Director, Craig McGuckin, stated: *"It is exciting to see the early adoption of the PureGRAPH™ products being recognised by newGen customers in real industrial applications. It is a credit to the efforts and dedication of both the First Graphene and newGen teams"*

newGen Managing Director, Ben Walker stated: *"The PureGRAPH resin was added seamlessly into our mixing procedure. It is not labour intensive or complicated with regard to our standard operating practices."*

About First Graphene Ltd (ASX: FGR)

First Graphene has established a commercial graphene production facility for the bulk scale manufacture of graphene at competitive prices. The Company continues to develop graphene related intellectual property from which it intends to generate licence and royalty payments.

The Company has collaboration arrangements with four universities and is at the cutting edge of graphene and 2D related material developments. Most recently First Graphene has become a Tier 1 participant in the Graphene Engineering and Innovation Centre (GEIC) of the University of Manchester. First Graphene is working with numerous industry partners for the commercialisation of graphene and is building a sales book with these industry partners.

PureGRAPH™ Range of Products

The PureGRAPH™ range of products were released by FGR in September 2018, in conjunction with a detailed Product Information Sheet.

PureGRAPH™ graphene powders are available with lateral platelet sizes of 20µm, 10µm and 5µm. The products are characterised by their low defect level and high aspect ratio.

About Graphene

Graphene, the well-publicised and now famous two-dimensional carbon allotrope, is as versatile a material as any discovered on Earth. Its amazing properties as the lightest and strongest material, compared with its ability to conduct heat and electricity better than anything else, means it can be integrated into a huge number of applications. Initially this will mean graphene is used to help improve the performance and efficiency of current materials and substances, but in the future, it will also be developed in conjunction with other two-dimensional (2D) crystals to create some even more amazing compounds to suit an even wider range of applications.

One area of research which is being very highly studied is energy storage. Currently, scientists are working on enhancing the capabilities of lithium ion batteries (by incorporating graphene as an anode) to offer much higher storage capacities with much better longevity and charge rate. Also, graphene is being studied and developed to be used in the manufacture of supercapacitors which can be charged very quickly, yet also be able to store a large amount of electricity.

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