

3rd November 2021

Bitumen masterbatch formulation added to PureGRAPH® product range

HIGHLIGHTS

- **Third masterbatch product formulation released for use in road and asphalt applications**
- **Designed to fit into existing production lines for ease of use and faster industry adoption of graphene solutions**
- **Expands First Graphene's range of masterbatch offerings**

First Graphene Limited (ASX:FGR; "First Graphene" or "the Company") is pleased to announce the release of PureGRAPH® MB-EVA Bitumen, a graphene-loaded carrier masterbatch for blending into asphalt mixture.

Designed to improve mechanical properties and stability of roads and other asphalt surfaces, the masterbatch can also be added to bitumen storage tanks to create a graphene-enhanced polymer modified binder without the need for high shear mixing.

Masterbatches are formulated to allow product manufacturers to easily incorporate graphene additives into their manufacturing processes.

PureGRAPH® MB-EVA Bitumen is a graphene enhanced Ethylene-Vinyl Acetate (EVA) masterbatch, which takes advantage of First Graphene's few-layer, high-performing graphene additives.

The new formulation further extends First Graphene's masterbatch product range to cater for yet another large, globally significant industrial application. While graphene-enhanced asphalts have undergone trials by other providers in Europe and the UK, First Graphene's PureGRAPH® MB-EVA Bitumen formulation is the first solution available for widespread commercial applications.

The masterbatch formulation utilises the Company's proven PureGRAPH® graphene product, which is manufactured to precise standards and at tonnage volumes.

Michael Bell, Managing Director and CEO of First Graphene said: "PureGRAPH® MB-EVA Bitumen further extends the Company's masterbatch range to cater directly for another major global industry, which is valued at more than US\$60 billion with a strong growth trajectory predicted over coming years. First Graphene's masterbatch products are designed to enable easy incorporation of PureGRAPH® enhanced carriers into common materials without the need for specialist equipment or significant changes to production processes. The Company continues to work with industry to develop solutions, educate manufacturers on the many benefits of graphene and therefore build faster paths to market."

ASX ANNOUNCEMENT



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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 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.

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Trading Symbols

Australia: FGR
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.