

Tomorrow’s anti-corrosion material. Today.

Applied Graphene Materials’ launches the Genable® 3000 series. Graphene based active, non-metallic, anti-corrosion additives with industry leading performance

Applied Graphene Materials (AGM) has announced the launch of their latest, ground-breaking, dispersion range - the **Genable® 3000 series**. **Genable® 3000 series** materials are graphene based active, non-metallic, anti-corrosion additives and have been proven to deliver industry leading performance.

The new series has been formulated to enable the full benefit of graphene materials to be accessed by coatings industry formulators seeking step change anti-corrosion performance, particularly under harsher environmental conditions.

Incorporated into the formulation of an industry standard C3 epoxy primer system, and tested under representative cyclical salt spray testing (ASTM G-85-94 Prohesion), **Genable® 3000 series** materials have been shown to deliver a 5-fold extension in coating lifetime.

The properties of the **Genable® 3000 series** make it an ideal tool-box additive for formulators seeking to significantly enhance coating performance in a range of environments. As an additive capable of offering metal free systems with extended durability it is anticipated that it should find applicability in harsh C4, possibly C5, type environments such as in high humidity industrial, marine and off-shore applications. Once optimised into formulations **Genable® 3000 series** additives will provide attractive commercial benefits to coating developers and end-users alike, enabling the further optimisation of multi-coat systems and providing significant reductions in application, maintenance and repair costs.

Genable® 3000 series dispersions are active, non-metallic, anticorrosion additives available initially in epoxy resins but with a range of solvent and water based dispersions under near-term development.

All AGM’s **Genable®** dispersions are formulated for long term stability and engineered to aid easy incorporation into existing manufacturing processes. The new range follows on the heels of the recent launches of the **Genable® 1000 series** (for enhancing existing anti-corrosive additive performance) and the **Genable® 2000 series** (specifically for corrosion inhibition on aluminium substrates).

Prohesion Testing

Over 5 times extension to the primer coating lifetime under cyclic salt spray (ASTM G-85-94 Prohesion) with the use of **Genable® 3000**, AGM’s formulation ready active corrosion inhibitor, in place of ZnPO₄:



*Control is an in-house primer typical of a standard industrial C3 ZnPO₄ based system



For further information please contact AGM Sales Office on

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About Applied Graphene Materials

Applied Graphene Materials works in partnership with its customers using its knowledge and expertise to provide custom graphene dispersions and formats to deliver enhancements and benefits for a wide range of applications. The Group's strategy is to target commercial application in three core markets: coatings, composites and polymers and functional fluids.

The Group has developed proprietary bottom-up processes which are capable of producing high volume graphene nanoplatelets using a continuous process. The manufacturing processes are based on sustainable, readily available raw materials and therefore do not rely on the supply of graphite, unlike a number of other graphene production techniques. Applied Graphene Materials owns the intellectual property and know-how behind these processes.

Applied Graphene Materials was founded by Professor Karl Coleman in 2010 with its operations and processes based on technology that he initially developed at Durham University. The Group was admitted to AIM in November 2013.