Proud to be a leading innovator in graphene dispersion and application technology

Genable Dispersions for Chemical Resistance

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How do Graphene Nanoplatelets Work?

Increased Length of Tortuous Path Through a Coating

AGM’s patent-protected technology produces Graphene Nanoplatelets that are approximately **25,000 times** thinner than a human hair.

The addition of just **0.1%** graphene can increase a particle’s journey through a single coat of standard industrial paint by **120 times**!

- Typically **3 - 5** Atomic Layers Thick
- **4 nm** Platelet Thickness
- **5%** Oxygen Content
- **Surface Area of 300m²/g**
- **Tap Density 9g/l**
Dispersion is Key to Performance Success

Industry Leading Know-How in the Dispersion of GNPs

Research has shown that the **dispersibility** of graphene nanoplatelets is essential to achieving success in an application.

Consistent supply of **high quality, repeatable** graphene dispersions is where AGM’s **expertise** lies.

- Easy to Handle
- Simple to Add
- Safe to Use
- Optimised for Performance
- Excellent In-can Stability
- Enabling industry to realise the potential of graphene in a simple, safe and easy to formulate way.

WE ARE GRAPHENE.
What do Genable Dispersions do?

Water Vapour Transmission
Comparison Between Commercial MiOx and Graphene based Formulated Epoxy Primers
Chemical Resistance Results

Significant uplift in coating performance

Example Coating Performance in Lactic Acid – 28 Day Immersion Testing

AGM compared the chemical resistance performance of graphene-enhanced epoxy resin coating formulations against an industry standard glass flake-filled alternative.

The addition of graphene resulted in less blistering, a marked improvement in gloss retention and greater hardness.

Click To View Full Test Results
Chemical Resistant Coatings

Why innovate with graphene?

Outstanding barrier performance

Flexibility in formulation for improved physical properties

Cost-competitive solutions
Further information

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