

Create New Barriers ...with Graphene

Looking for new tools in barrier and anti-corrosion performance?

- **Genable™** delivers Graphene's breakthrough barrier technology to coatings
 - **Genable™ 1000 series** - enhance and reduce content of existing anti-corrosion additives
 - **Genable™ 2000 series** - outstanding anti-corrosion performance on aluminium substrates*

Formulation ready dispersions available in a range of industry standard epoxy resins, solvents and water;

- Cost effective
- Easy to incorporate
- Supported by extensive in-house characterisation and product integration expertise

Demonstration of Genable™ 1000 series

Over 3 times extension of coating lifetime in an in-house ZnPO₄ based epoxy primer (control) with the addition of Genable 1000. Primer typical of a standard industrial C3 ZnPO₄ based epoxy primer system and tested under cyclic salt spray (ASTM G-85-94 Prohesion).

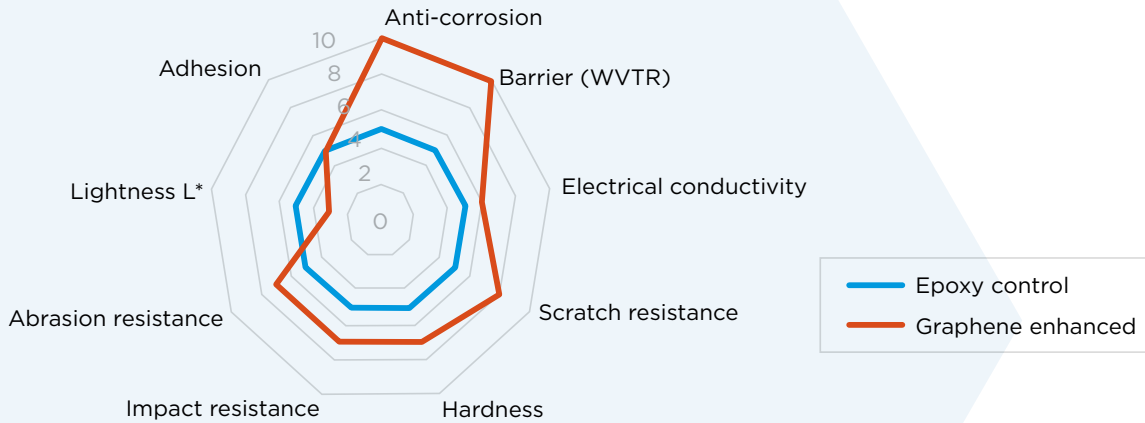


FOR MORE INFORMATION

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Typical Properties

of graphene enhanced paints and coatings



Standard *Genable*TM range of dispersions

*Genable*TM range dispersions have been prepared to a set viscosity and particle size via a controlled manufacturing process. Shelf life of these products is 3 months at ambient temperature.

MATRIX	TYPE	MATRIX	TYPE	MATRIX	TYPE
Low Viscosity Epoxy Resin	Resin	Water	Solvent	Xylene	Solvent
Medium Viscosity Epoxy Resin	Resin	Ethyl Acetate	Solvent		
MEK	Solvent	Butyl Acetate	Solvent		

Typical customised dispersions under development

MATRIX	TYPE	MATRIX	TYPE	MATRIX	TYPE
Vinyl Ester Resin	Resin	Waterborne Paint	Solvent	DPGDA	Solvent
Benzoxazine Resin	Resin	PGME	Solvent	Mono Ethylene Glycol	Solvent
UV Curable Resin	Resin	Glycol ether	Solvent	DCM	Solvent
PTFE	Resin	Toluene	Solvent	Paraffin Wax	Wax
Polyurethane Resin	Resin	IPA	Solvent	Group I Base Oil	Lubricant
Polyester Resin	Resin	White Spirit	Solvent	Group II Base Oil	Lubricant
Alkyd Resin	Resin	Acetone	Solvent	Group III Base Oil	Lubricant
Acrylic Resin	Resin	TPGDA	Solvent	Group IV Base Oil	Lubricant
Polyol	Solvent	Ethanol	Solvent	Group V Base Oil	Lubricant
HDDA	Solvent	DMSO	Solvent	Greases	Lubricant
Methyl Methacrylate	Solvent	Cyclohexanone	Solvent	Solventborne Paint	Paint

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