

HexaShield™

Paintable Coating System for Electromagnetic Interference (EMI) Shielding



Introduction:

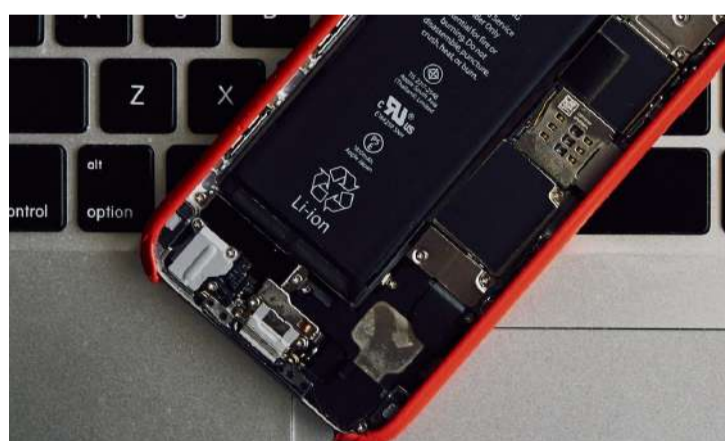
Human-made and natural electromagnetic interference (EMI) sources can cause temporary disturbances, data loss, and failure of electronic devices, equipment, and systems. These problems are found in the automotive, aerospace, defense, and medical industries.

Existing shielding methods that address these issues use brittle, inflexible and heavy systems, as well as rigid enclosures, meshes and foils made from heavy-weight and expensive metals like silver, copper, aluminum and nickel.

HexaShield™ is an innovative graphene-based EMI Shielding paintable coating that offers customized electrical resistance and wave attenuation levels. This system can be applied to flexible or rigid substrates as well as uneven surfaces by using conventional spray or brushing techniques.

Markets:

Electronic Parts



Automotive Components



Aerospace & Defense



Medical Devices



Benefits:



More than **75% reduction in weight** by replacing heavy metal shielding with lightweight polymers



Outstanding conductivity with **planar electrical resistance lower than 100 Ohm/sq**



Attenuation with microwave frequency range **over 95% between 300 MHz and 3GHz**



Adheres to **rigid, flexible, uneven, and soft materials**



HexaShield is **environmentally friendly and recyclable**

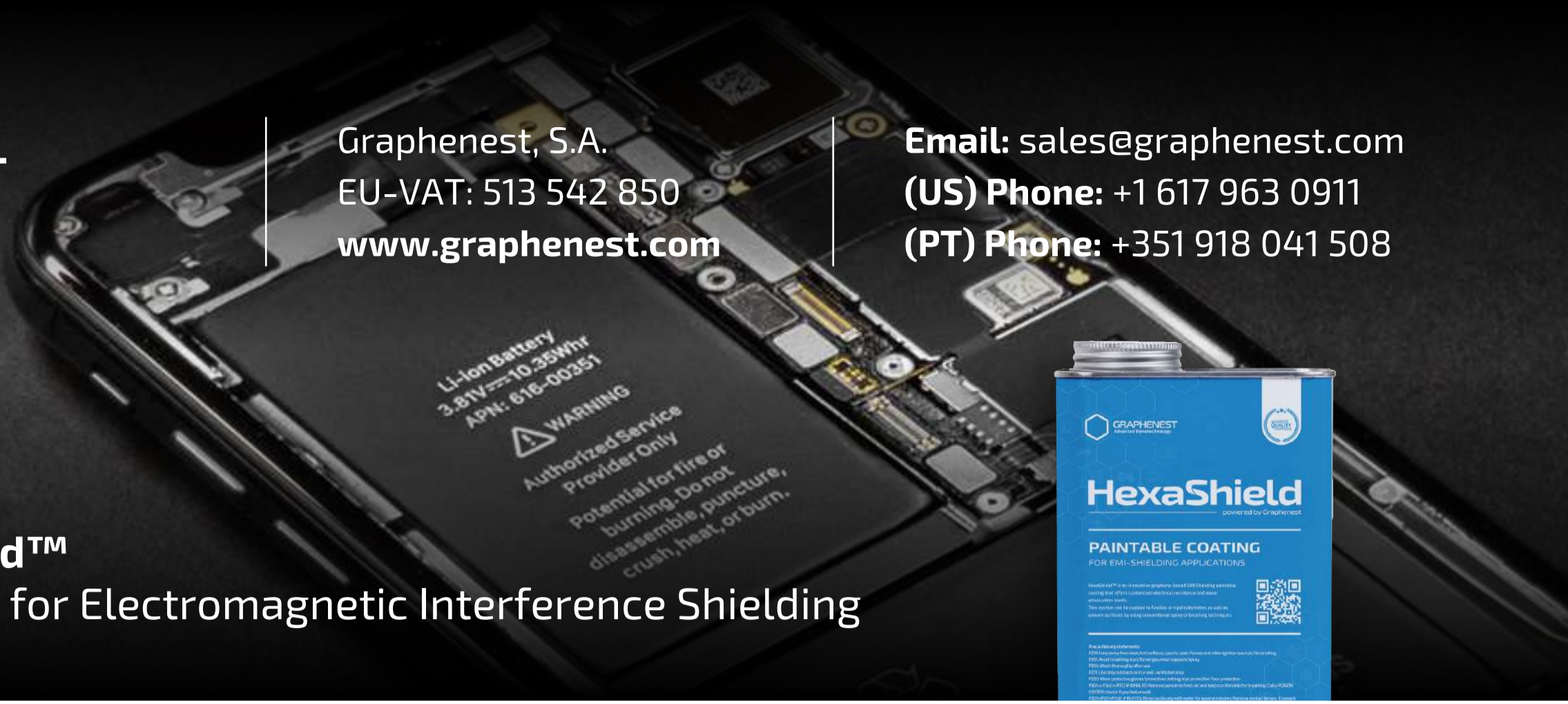
Easy 2-Step Application

1. **HexaShield™** comes ready-to-use. Just stir slowly until uniform.

2. Use conventional spray equipment or paint brush to apply. **HexaShield™** can air dry or be cured by heating at up to 250 °C.

Disclaimer:

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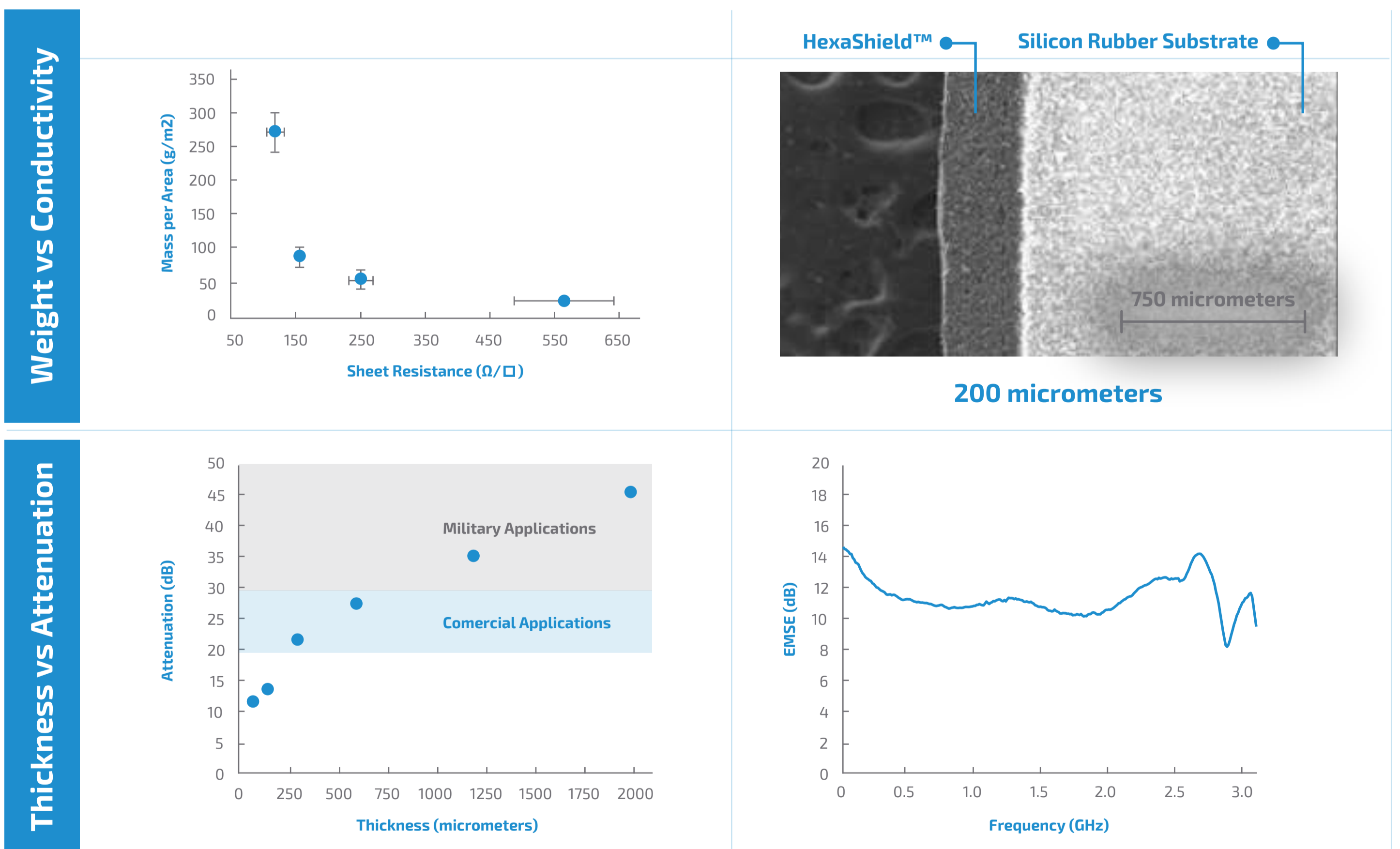


Technical Info HexaShield™ Paintable Coating System for Electromagnetic Interference Shielding

ATSM | Testing

Graphene-based conductive coatings have emerged as the superior solution for control of electrostatic discharge and lightning strike protection. Graphene's conductive properties also make it possible to replace metallic coatings, foils, meshes, and enclosures, with a lighter, flexible coating that is easy to use.

Confirmed EMI | Shielding Effectiveness



Graphenest's key enabling technology provides low cost, environmentally friendly graphene-based solutions. This allows the application of graphene to a wide range of manufacturing industries including aerospace & defense, automotive, packaging, marine, sports & protective equipment, and biotech.