

RFI / EMI Shielding Coatings used in the Transport Sector

RFI / EMI Shielding Paints are widely used throughout the transport and automotive industry. Their use in this sector includes shielding electronic circuitry within trains, aeroplanes, ships, trucks and cars including shielding for engine management systems, braking, steering, instrumentation, communications, GPS navigation and avionic control electronics.

Why Use RFI Shielding Paints?

Electronic devices and equipments need to be shielded from Radio Frequency Interference (RFI) and Electromagnetic interference (EMI) for various reasons including improving signal quality, limiting cross-talk where devices interfere with each other and potential health risk limitations due to the nature of the signals coming from the devices.

These telecommunication, technological, and health reasons form the basis for governmental, industrial, and commercial shielding requirements.

What are EMI/RFI Shielding Coatings?

RFI Shielding Paints are conductive protective coatings applied to non-metal plastic casings and products that unless shielded would not stop RFI and EMI reaching the sensitive electronics within.

The Shielding Coating applied to the casing creates a conductive shield around the device and prevents RFI and EMI entering the device and also stops signals leaving.



Without and with RFI / EMI shielding

This shielding of stray EMI and RFI is a vital process that ensures electronic processes are reliable in operation.

SCH Technologies is a Trading Name of SCH Services Limited
Newburgh Building, McLintock Way, Barnsley, South Yorkshire. S70 6BF
Tel: +44 (0)1226 297711 Fax: +44 (0)1226 297733
www.conformalcoating.co.uk



Conductive shielding coatings are used in a wide range of Sectors in the Electronics World.

These Sectors include Military & Aerospace, Telecommunications, Transport, Automotive, Instrumentation and Automation, Medical and Computer.

SCH provide a full range of RFI / EMI Shielding Coatings from MG Chemicals including Carbon, Graphite, Nickel and Silver.

SCH Technologies offer

- Conformal coating Subcontract Services
- Global supply of Conformal Coating Application Equipment
- Electronics Process Materials including RFI Shielding Coatings, Epoxy Compounds and Lubricants and Greases
- Conformal Coating Training courses Consultation & troubleshooting

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