



## APPLIED COATING TECHNOLOGIES LTD

**Product Description:** Nickel Conductive Coating

**Product Reference:** **APPLICOAT EN150**

**APPLICOAT EN150** is a highly conductive sprayable nickel loaded conductive coating for use on plastic substrates. It is formulated with specially prepared metallic nickel particles to provide a durable conductive coating for use in EMI/RFI Shielding applications. The coating can be applied directly to a range of plastic substrates, however the applicator should check adhesion and substrate compatibility prior to production application.

<b>Typical Properties</b>	<b>APPLICOAT EN150</b>
Binder	Synthetic resin
Conductive Filler	Nickel
Viscosity	As supplied - Thixotropic
Specific Gravity	1.86g / cm <sup>3</sup>
Recommended Dry Film Thickness	40-60 microns
Surface Resistance @ 40 microns	< 1.0 Ohms per square
@ 60 microns	< 0.5 Ohms per square
Shelf Life (wet paint)	6 months from date of manufacture
Storage Temperature	10°C to 30°C

The properties of the fully cured coating depend on application technique. The applicator must ensure they have fully trained operators and the correct application equipment.

The following is offered as a guideline to achieving best results; however it is the responsibility of the applicator to ensure that optimum spraying conditions for each particular job are developed.

<b><u>Spraying Parameter</u></b>	<b><u>Recommendations</u></b>
Spraying Gun	Use high transfer efficiency gun with 1.4mm diameter nozzle
Air Pressure to Gun	25 – 35psi
Agitation of the Paint	This is a high solid paint and settles very quickly. Always stir the paint thoroughly prior to use. While spraying the paint needs to be continually agitated.
Application	Apply the paint using several passes, uniformly over the required surface area.
Dilution	Suitable diluents- M.E.K. or GP709 Mix by volume. Mix 2 parts paint with up to 1 part solvent to obtain a viscosity of 45-50 seconds using a BS B4 viscosity cup.
Curing	The paint will air dry over 24-48 hours. For accelerated curing allow minimum 30 minutes flash-off period prior to curing at 60 - 65°C for minimum of 45 minutes.
Compatibility with Substrates	The coating is designed to be applied to commonly used plastics such as ABS, PC, ABS/PC blends. Although other substrates can be coated, the applicator must check compatibility prior to use.

**Notes:**

The data contained herein represents typical properties and is not to be used as a basis for a specification. The information included in this document is considered reliable, but conditions and methods of use, which are beyond our control, may modify results. Before adopting our products for commercial use, the user should confirm their suitability. This product is sold without warranty either expressed or implied of fitness for a particular purpose or otherwise except that this product shall be of a standard quality, and except to the extent other than stated on Applied Coating Technologies Ltd invoice, quotation or order acknowledgement.