



APPLIED COATING TECHNOLOGIES LTD

Product Description: Solvent Based Silver Conductive Paint

Product Reference: **APPLICOAT ES210**

APPLICOAT ES210 is a highly conductive silver paint that can be applied by spraying to various plastic substrates. It is formulated with very mild solvents that can tolerate higher built-in stresses that can be found in moulded parts. Appliccoat ES210 contains no methyl ethyl ketone (MEK) or other strong solvents which can attack solvent sensitive substrates; such as polycarbonate.

Typical Properties	APPLICOAT ES210
Binder	Vinyl / Latex
Conductive Filler	Pure Silver
Viscosity	Thixotropic mixture as supplied. Can be diluted with denatured Ethyl Alcohol
Solids	47.0 ± 0.5%
Specified Gravity	1.38 g/cm ³
Recommended Dry Film Thickness	10 – 25 microns
Surface Resistance @ 10 microns	< 0.05 Ohms per square
@ 25 microns	< 0.015 Ohms per square
Shelf Life (wet paint)	1 year, storage temperature should be 10°C - 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.

<u>Spraying Parameter</u>	<u>Recommendation</u>
Spraying Gun	Use high transfer efficiency gun with 1.2mm diameter nozzle
Air Pressure to Gun	20 – 30 psi
Agitation of the Paint	This is a high solids 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	Mix with denatured Ethyl Alcohol to ratio of 1:1 by volume
Curing	Allow minimum 15 minutes flash-off period prior to curing at 60 - 65°C for minimum of 30 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:

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