

**DESCRIPTION**

- A specialised radio frequency interference (RFI) and electromagnetic interference (EMI) shielding and antistatic coating for plastic substrates

PRINCIPAL CHARACTERISTICS

- highly conductive, nickel rich coating
- will yield a surface resistance of 0.5 ohms/square or less, at dry film builds of 40-50 microns, as tested according to ASTM D257
- high electromagnetic absorptive properties over a broad frequency range

Note: We advise that you test this product to determine if it is suitable for your particular use.

COLOUR AND GLOSS

- grey, matt

BASIC DATA AT 25°C and 50% RELATIVE HUMIDITY

- vehicle type thermoplastic acrylic
- typical film thickness (per coat) 40 microns (dry), 135 microns (wet)
- solids content approx. 30% by volume
- theoretical spreading rate 7.5m²/L for 40 microns (dry)
- touch dry..... 30 minutes
- dry to handle 1 hour
- hard dry 24 hours
- recoat time minimum 1 hour
- shelf life (cool, dry place) at least 12 months in unopened container

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURE

- selected plastics including ABS, Noryl (FN215 and 190), polycarbonate and polystyrene (refer to approved list below); degrease thoroughly with a degreasing agent suitable for the selected plastic
- substrate temperature should be at least 3°C above dew point
- relative humidity should not exceed 85%

INSTRUCTIONS FOR USE

- continuous film of 40-50 microns will be optimum to meet 0.5 ohms/square tested according to ASTM D257
- additional film thickness will not improve surface resistance
- excessive film builds may be harmful to the physical characteristics
- in order to maximise absorptive values, it is recommended that no less than 40 microns be applied
- as a quality assurance test one may employ ASTM D257. This test is for determining surface resistivity and not RFI or EMI shielding effectiveness.
- surface resistivity is expressed in ohms/square and measured with two electrodes spaced equal distance apart. As long as the distance is equal in length and width and the coating thickness is constant over the square area, the resistance will be the same for any square.
- point to point (linear electrode measuring) will not yield ohms/square. Different distance between the electrodes will yield different expressions usually of a higher numerical value than ohms/square.
- can be force dried for 15-30 minutes at 60°C
- for specific application requirements, contact your Watty Paints representative



APPLICATION

- AIR SPRAY
 - recommended thinner Thinner T18 or T2
 - volume of thinner 50%
 - nozzle orifice 1.4 - 1.8 mm
 - nozzle pressure 0.27 - 0.34 MPa (40-50 psi)

- BRUSH/ROLLER (for small areas only)
 - recommended thinner Thinner T18 or T2
 - volume of thinner up to 3%

- CLEANING SOLVENT Thinner T18 or T2

ADDITIONAL DATA

SUBSTRATE APPROVALS

Company	Product
General Electric Company	Noryl (FN215 and 190), Lexan (without primer)
Mobay Chemical Company	Merlon (without primer)
Borg Warner Chemical Company	Cycolac (without primer)
Dow Chemical Company	Styron (without primer)
Diamond Shamrock Company	PVC (without primer)

- Underwriters Laboratories Inc. Registration under File Number E76989 Project Number 80NK21766

SAFETY PRECAUTIONS

- flammable. Avoid contact with heat and naked flame
- avoid contact with skin and eyes
- use gloves, mask and goggles during application
- provide adequate ventilation when using in confined spaces
- this product is intended for use in industrial situations by professional applicators in accordance with the advice given on this sheet. All work involving the use and application of this product should be carried out in compliance with all relevant Health, Safety & Environmental standards and regulations and must not be used without reference to the Material Safety Data Sheet (MSDS)

PACKAGING

4 litres

For the most up to date information contact WattyL Customer Service Hotline or visit the WattyL Website.

	Australia	New Zealand
CUSTOMER SERVICE HOTLINE	132 101	0800 735 551
WEBSITE	http://www.wattyL.com.au	http://www.wattyL.co.nz

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