



# Professionally approved products

## TECHNICAL DATA SHEET

### RS 251-3700 Fluorinated Polymer Coating

RS 251-3700 is a specialist fluorinated polymer coating formulated to provide high levels of liquid repellence to printed circuit boards and other electronic devices.

- Very low surface energy; repels hydrocarbon and silicone oils, synthetic fluids and aqueous solutions
- Low solids content and low film strength once cured; no masking required
- Fast touch dry time and simple coating procedure

Approvals	RoHS-2 Compliant (2011/65/EU):	Yes
Liquid Properties	Appearance:	Colourless liquid
	Density @ 20°C (g/ml):	0.72
	Flash Point:	7°C
	Solids content:	2%
	Viscosity @ 20°C (mPa s):	2
	Touch Dry Time:	5 minutes
	Recommended Drying Time:	24 Hours @ 20°C 15 minutes @ 100°C (optional) *
	* A slight increase in repellency occurs if the film is heat cured after drying	
Dry Film Coating	Colour:	Colourless
	Operating Temperature Range:	-50°C to +125°C
	Moisture Resistance:	Excellent
	Surface Energy:	<18 dynes/cm
	Dielectric Strength:	80 kV/mm
	Surface Insulation Resistance:	$1 \times 10^{14} \Omega$

**Packaging**  
250ml pump spray

**Order Code**  
RS 251-3700

### Directions for Use

RS 251-3700 can be sprayed directly from the can. Temperatures of less than 16°C or relative humidity in excess of 75% are unsuitable for the application of RS 251-3700. As is the case for all solvent based coatings, adequate extraction should be used (refer to MSDS for further information). As RS 251-3700 has a low film strength, masking of connectors is not required prior to coating.

Substrates should be thoroughly cleaned before coating. This is required to ensure that satisfactory adhesion to the substrate is achieved. Also, all flux residues must be removed as they may become corrosive if left on the PCB. RS 251-3700 contains a UV trace, which allows inspection of the PCB after coating to ensure complete and even coverage.