

# Richard Foot Pty Ltd

## RF CIRCUIT BOARD LACQUER SPECIFICATIONS & APPLICATION NOTES

RF Circuit Board Lacquer is flexible based lacquer specially formulated to protect circuit boards from humidity and other types of environmental attack.

### ADVANTAGES

- Excellent resistance to humidity, mould growth and ultra violet light.
- High surface resistivity and low oxygen permittivity.
- Will not affect copper tracks on circuit boards.
- Excellent adhesion under all climate conditions.
- Wide temperature range -20 to +100°C
- High gloss finishes - good levelling characteristics.
- Good di-electric properties - coating thickness 0.05mm.
- Can be soldered through without risk of highly toxic gases being produced.

### TYPICAL PROPERTIES

Colour	:	Clear colourless liquid
Flash Point	:	27°C
S.G @ 20 Deg C	:	0.9
Viscosity @ 20 Deg C	:	12 seconds through No.4 cup
Toxicity	:	Non toxic

### METHOD OF APPLICATION

RF Circuit Board Lacquer can be applied by dipping, brushing or spraying with aerosol or gun to circuit boards. For the best possible results the circuit boards should be cleaned with a solvent to remove any oils, grease or atmospheric contaminants, washed with de-ionised water and dried in an air-circulating drying cabinet for 4 hours at 50°C. The minimum recommended cleaning is with RF Circuit Board Cleaner.

### SPRAYING WITH AEROSOL OR GUN

With the aerosol, agitate can and spray light coats from at least two different directions. With a spray gun select a nozzle to give an even coating of approximately 30 x 10<sup>6</sup> kN/sq.m (45lbs/sq.inch). Spray from all directions to ensure penetration of lacquer beneath components. After spraying, store boards horizontally for 10 minutes, after which they will be touch dry. When spraying with aerosol do not spray at less than 45° to vertical.

### DIPPING AND BRUSHING

RF Circuit Board Lacquer is available in a grade suitable for brushing and dipping. When dipping, leave submerged for approximately 30 seconds and/or wait for any air bubbles to finish. Withdraw the board very slowly and drain over tank to allow excess to run off. When applying by brush use a good quality brush and apply coating carefully so as not to leave brush marks or disturb components or wiring.

### GENERAL

RF Circuit Board Lacquer has excellent levelling characteristics and providing the circuit board has been properly cleaned, the lacquer will flow under components and dry with a clear, flexible pin hole free finish, which will protect board and components against moisture and other environmental attack. Improved resistance to certain solvents can be achieved by curing at 80°C for 4-6 hours, but care should be taken to ensure that curing conditions are compatible with the electronic components.

All information is given in good faith but without warranty.

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