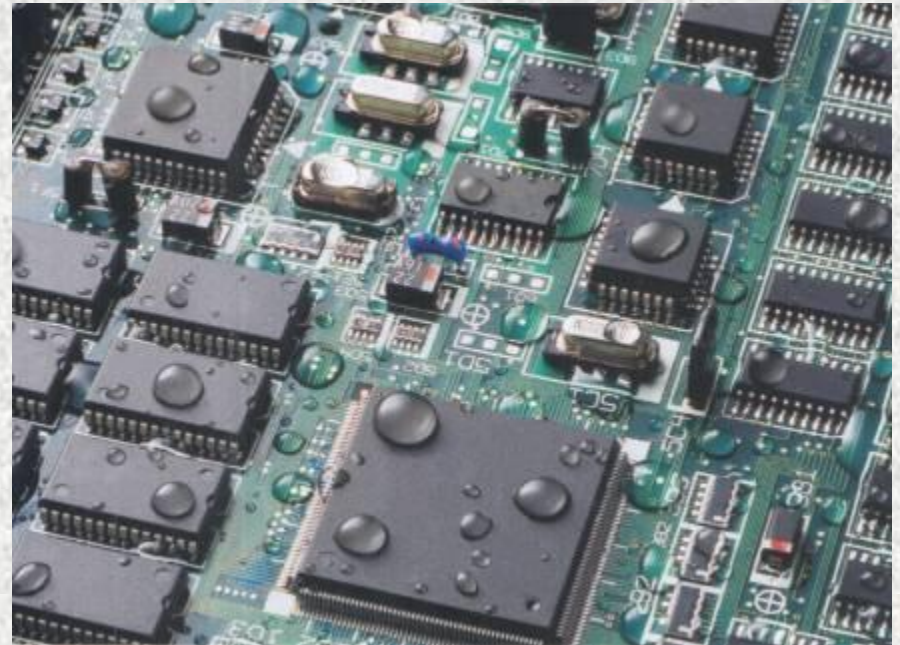


Certonal Electronic Coating FC-742



Certonal Electronic Coating FC-742

Certonal® FC-742 is a protective coating. When properly applied, it dries to a thin, transparent film possessing excellent anti-wetting and anti-sticking properties against low surface tension liquids such as oils, silicones, and photoresist solutions



Advantages of FC-742

É Excellent Solvent/Chemical Resistance

É Fast and Easy Application

- ó Dip or Spray**

- ó No Curing Required**

- ó Little to No Masking Required**

- ó Removable for Easy Rework and Repair**

É Solder through Reparability

É Transparent (Does Not Yellow)

É Excellent Environmental and Safety Properties

FC-742 Applications

É FC-742 can be applied to plastics, copper, aluminum, steel, tin, or glass.

É Ideal Applications Include:

- ó PCBs that are vulnerable to moisture, condensing moisture, conductive dusts, hydrocarbon oils and solvents, corrosive gasses

- ó Industrial Controls

- ó Automotive

- ó Marine

FC-742 General Properties

Property	FC-752
Solids Content	2 %
Typical coating thickness	0.5 micron
Viscosity	<10 cps
Flash Point (°C)	None
Dry time for handling	<60 sec.
Pot life at room temp.	1 years
Shelf life at room temp	2 years
Coverage per Kg	24m ²
Flammability (self extinguishing)	Yes
Tg °C	-63
Dielectric constant (at1kHz)	3.04
Dielectric strength	1500V/mil (20°C 30% RH)
Dissipation factor (at 1kHz)	0.04*

* Estimate

Coating Comparison

Characteristic	Epoxy	Silicone	Urethane	Acrylic	Parylene	FC-752
Thickness (μm)	50-125	125-260	75-150	75-150	15-30	1
Reworkability	Poor	Fair	Fair	Good	Poor	Excellent
Masking	Yes	Yes	Yes	Yes	Yes	Not always
Coverage	Poor	Poor	Fair	Fair	Excellent	Excellent
Process time (min)	<10 – 120	60-240	30-200	15-60	45-120	<7
Dielectric Constant (1MHz)	3.3-4.0	2.6	4.2-5.2	4.0-5.5	2.8	2.1
Chemical Resistance	Good	Excellent	Good	Poor	Excellent	Good
Mechanical Durability	Excellent	Fair	Good	Good	Excellent	Poor
Stress/cracking	Poor	Excellent	Fair	Poor	Excellent	Excellent

Certonal[®] Engineered Fluid FC-746

- É Carrier solvent in FC-742
- É Hydrofluoroether (C₄F₉OCH₃)
- É Non-flammable
- É Non-ozone depleting
- É Low global warming potential
- É Low in toxicity (EG = 750ppm 8-hr. TWA)
- É Low viscosity (0.61 cps.)
- É Low surface tension (13.6 dynes)

Recommended Applications

- É Mobile phones and line-phone jacks
- É Security systems
- É Coin recognition electronics
- É Handheld devices
- É Modular controls
- É Industrial control units
- É Traffic signal systems

Recommended Equipment

É FC-742 can be applied via dip equipment.

Acota have considerable experience working with this type of material:

ó Acota Ltd.

ó Tel. 01743-466200.

ó Contact Steve Henly.