DURASURF

Fluorinated Conformal Coating Material

DP-500 series













Product summary

DURASURF DP-500 series is Fluorinated Conformal Coating material for printed circuit board and electrical components with ultra thin coating thickness, superior moisture barrier and electrical insulation characteristics.

Key properties

Superior moisture barrier, insulation and corrosion proof performance

Protect printed circuit boards and electrical components with ultra thin coating thickness thanks to its superior moisture barrier, electrical insulation and corrosion proof properties.

Superior workability

Thanks to its low viscosity and quick drying characteristic, drying at ambient temperature is possible. For this, coating process time should be minimized.

▶ Excellent safety

Thanks to its non-flammable feature, DURASURF DF-500 series is not classified as dangerous goods, therefore, it can be shipped as normal goods.

Typical physical properties

Item	DP-502TH	DP-508TH	DP-508C	DP-520C	DP-530C
Appearance	Transparent	Light yellow to	Light yellow to	Light yellow to	Light yellow to
		transparent	transparent	transparent	transparent
Fluorinated	2%	8%	8%	20%	30%
polymer contents					
Viscosity (mPa·s)	5 or lower	Approx. 5	Approx. 5	Approx. 20	Approx.100
Coating thickness	1	5	5	10~20	20~30
(µm)					
Touch dry time	5sec or less	5-10sec	1-2min	5min	10-20min
Contact angle	112° (Water)				
	70° (n-hexadecane)				
Volume resistivity	3.9×10 ¹⁵ Ω⋅cm				
Dielectric strength	84 KV/mm				
Operating temp.	-30~150 ℃				

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Application

- Moisture barrier and electrical insulation to exposed wiring between touch panel sensor module and FPC (Flexible printed circuits)
- Protect metal parts and PCB from hydrochloric acid, sulfuric acid, sulfurous acid gas or battery electrolyte
- Anti-sulfurization for LED Ag plated lead frame
- Moisture proof and electrical insulation for High Frequency PCB
- Moisture proof and electrical insulation for LED PCB

Recommended application method

Base material: Various resin, PCB, FPC etc.

Application method:

All kinds of wet process including, Brush, Dipping, Spraying, Dispense.

Drying method:

Drying at ambient condition (Ambient Temp. / normal humidity)

1-8h to reach fully dried condition (product type dependent)

Coating removal method

Use HARVES solvent (DS-TH, DS-C) only since DURASURF coating film is insoluble to non-fluorinated solvent.

Packaging

- 1kg Plastic bottle
- 20kg Steel can



Important Points

- *For storage, completely seal the container and place it in a cool, well-ventilated location away from direct sunlight. Refrigerated storage is unnecessary.
- *The performance of the product will be impaired if any contaminants such as oil or dirt has adhered to the surface to be coated, so please sufficiently remove any contaminants before use.
- *The active ingredients and the contents of this documents are subject to change without notice.
- *The contents of this document are based on representative actual measurements and surveys and do not constitute any guarantees as to the contents
- *Before using the product, be sure to conduct preliminary testing at your company, and use it your company's responsibility, after having confirmed its safety
- *The customer assumes all legal responsibility for the import and export of the product.
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