Conformal Coatings

Technical Data Sheet



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PROVISIONAL TDS

FPCFluorinated Polymer Coating

FPC is a specialist fluorinated polymer coating formulated to provide high levels of liquid repellence to printed circuit boards and other electronic devices. Once dried, FPC has a low film strength and is therefore easily removed by minimal friction, allowing assemblies to be coated without masking.

- Very low surface energy; repels hydrocarbon and silicone oils, synthetic fluids and aqueous solutions
- Low solids content and low film strength once cured; connectors do not require masking
- Promotes cost effective and efficient application; quick touch dry time and simple coating procedure
- Non-flammable coating which contains a UV trace; ensures quality of coating by visual inspection

Approvals	RoHS-2 Compliant (2011/65/EU):	Yes
	REACH Compliant:	Yes

Liquid Properties Appearance: Colourless liquid

Density @ 20°C: 1.44 g/ml Flash Point of Solvent: None Boiling Point of Solvent: 45°C

Solids content: 2.2% Fluoropolymer

Touch Dry Time at 20°C:

Recommended Drying Time:

1-5 minutes
24 Hours @ 20°C
15 minutes @ 100°C*

UV Trace: Yes

Dry Film Coating Colour: Colourless

Temperature Range: -40 to 200°C**

Flammability: Meets UL94 V-0 Moisture Resistance: $> 1 \times 10^{12} \Omega$ Surface Energy: < 16 dynes/cm Dielectric Strength: 60 kV/mm Surface Insulation Resistance: $1 \times 10^{15} \Omega$ Dielectric Constant: 2.23 @ 1 MHz Dissipation Factor: 0.015 @ 1 MHz

^{**}Application and geometry dependent

Description	Packaging	Order Code	Shelf Life
FPC Coating	5 Litre	FPC05L	48 Months
HFS Solvent	5 Litre	HFS05L	48 Months

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^{*}An increase in repellency occurs with heat curing; curing times and temperatures can be evaluated according to the application requirements.