

PROVISIONAL TDS

FPC Fluorinated 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): REACH Compliant:	Yes Yes
Liquid Properties	Appearance: Density @ 20°C: Flash Point of Solvent: Boiling Point of Solvent: Solids content: Touch Dry Time at 20°C: Recommended Drying Time: UV Trace:	Colourless liquid 1.44 g/ml None 45°C 2.2% Fluoropolymer 1-5 minutes 24 Hours @ 20°C 15 minutes @ 100°C* Yes
Dry Film Coating	Colour: Temperature Range: Flammability: Moisture Resistance: Surface Energy: Dielectric Strength: Surface Insulation Resistance: Dielectric Constant: Dissipation Factor:	Colourless -40 to 200°C** Meets UL94 V-0 > 1 x 10 ¹² Ω <16 dynes/cm 60 kV/mm 1 x 10 ¹⁵ Ω 2.23 @ 1MHz 0.015 @ 1MHz

*An increase in repellency occurs with heat curing; curing times and temperatures can be evaluated according to the application requirements.
 **Application and geometry dependent

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

Revision 0: Sept 2015