

APCSP

Acrylic Protective Lacquer (Fast-Dry, Spraying Viscosity)

APCSP is a flexible, very fast drying acrylic conformal coating, formulated to offer the correct viscosity for selective coating and spray applications. This product has been formulated for professional use only.

- Transparent coating; offers good clarity in a range of different environments
- Enables efficient coating application; fast drying and no dilution required
- Ideal for applications requiring rework; can be removed with Electrolube ULS
- Fluoresces under UV light for simple coating inspection, either by manual or automated processes

Approvals	RoHS-2 Compliant (2011/65/EU): MIL Approval (MIL-1-46058C): IPC-CC-830:	Yes Meets approval Meets approval
Liquid Properties	Appearance: Density @ 20°C (g/ml): VOC Content: Flash Point: Solids content: Viscosity @ 23°C: Touch Dry: Recommended Curing Time: Coverage @ 25µm:	Pale Coloured Liquid 0.78 75% -7°C 25% 26-31 seconds (ISO 2431: Cup #4) ~ 70mPa s (Brookfield) 5-10 minutes 24 Hours @ 20°C 4 Hours @ 60°C 2 Hours @ 90°C 11m ² per litre
Dry Film Coating	Colour: Operating Temperature Range: Flammability: Thermal Cycling (MIL-1-46058C): Coefficient of Expansion: Dielectric Strength: Dielectric Constant: Surface Insulation Resistance: Comparative Tracking Index: Dissipation Factor @ 1MHz @ 25°C: Moisture Resistance (MIL-1-46058C):	Colourless -55°C to +125°C Meets UL94 V-1 Meets approval 130ppm 45kV/mm 2.5 1 x 10 ¹⁵ Ω >300 Volts 0.01 Meets approval

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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<u>Description</u>	<u>Packaging</u>	<u>Order Code</u>	<u>Shelf Life</u>
<u>APCSP Conformal Coating</u>	5 Litre Bulk	APCSP05L	24 Months
<u>Removal Solvent</u>	200ml Aerosol	ULS200D	36 Months
	400ml Aerosol	ULS400D	36 Months
	1 Litre Bulk	ULS01L	72 Months
	5 Litre Bulk	ULS05L	72 Months
	25 Litre Bulk	ULS25L	72 Months

Directions for Use

APCSP has been specifically formulated to give viscosities between 26-31 seconds using a flow cup ISO 2431 #4 for use in selective coating and spray equipment. The thickness of the coating depends on the equipment parameter set up (typically 25 microns). Temperatures of less than 16°C or relative humidity in excess of 75% are unsuitable for the application of APCSP. As is the case for all solvent based conformal coatings, adequate extraction should be used (refer to MSDS for further information).

Substrates should be thoroughly cleaned before coating. This is required to ensure that satisfactory adhesion to the substrate is achieved. Also, all flux residues must be removed as they may become corrosive if left on the PCB. Electrolube manufacture a range of cleaning products using both hydrocarbon solvent and aqueous technology. Electrolube cleaning products produce results within Military specification.

Spraying – Bulk

APCSP is supplied at the optimum viscosity to give coating quality and thickness depends on the spray equipment and conditions.

APCSP is suitable both for use in manual spray guns and selective coating equipment. The selected nozzle should enable a suitable even spray to be applied in addition to suiting the prevailing viscosity. The normal spray gun pressure required is 275 to 413kPa (40 – 60 lbs/sq.inch). After spraying, the boards should be placed in an air-circulating drying cabinet and left to dry.

Inspection

APCSP contains a UV trace, which allows inspection of the PCB after coating to ensure complete and even coverage. The stronger the reflected UV light, the thicker the coating layer is. UV light in the region of 375nm should be used for inspection.

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