

Description

This is a flexible, transparent acrylic conformal coating, used for the protection of electronic circuitry. This is a fast drying coating which provides excellent adhesion to a wide variety of substrates.

Typical Properties

Liquid Properties

| | |
|--------------------------|-------------------------------------|
| Appearance | : Pale Coloured Liquid |
| Density @ 20°C(g/ml) | : 0.78 |
| Flash Point | : -4°C |
| Solids content | : 15% |
| Touch Dry | : 10-15 minutes |
| Recommended Drying Time: | : 24 Hours @ 20°C 2 Hours @ 90°C |

Dry Film Coating

| | |
|------------------------------------|-----------------------------|
| Colour | : Colourless |
| Operating Temperature Range | : -55°C to +130°C |
| Flammability | : Meets UL94-V1 |
| Dielectric Strength | : 40 kV/mm |
| Dielectric Constant | : 2.7 |
| Surface Insulation Resistance | : $1 \times 10^{14} \Omega$ |
| Dissipation Factor @ 1MHz @ 25°C | : 0.01 |
| Moisture Resistance (MIL-1-46058C) | : Pass |



General Properties

| | |
|------------|-----------------|
| Packaging | : 400ml Aerosol |
| Shelf Life | : 36 months |

Directions for Use

This can be sprayed. The thickness of the coating depends on the method of application (typically 25-75 microns). Temperatures of less than 16°C or relative humidity in excess of 75% are unsuitable for the application of APL. As is the case for all solvent based conformal coatings, adequate extraction should be used.

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.

Spraying - Aerosol

When applying it in aerosol form care must be taken to ensure the can is not shaken before use. Shaking the can will introduce excessive air bubbles and will give a poor coating finish.

The can should be held at 45°C, and 200mm from the substrate to be coated. The valve should then be depressed when the can is pointing slightly off target and moved at about 100mm/s across the target. To ensure the best coating results are achieved try to use a smooth sweeping motion with small overlap for successive rows.

To ensure penetration of the coating beneath the components and in confined spaces, spray the assembly from all directions to give an even coating. After spraying, the boards should be placed in an air-circulating drying cabinet and left to dry.

Inspection

This 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.

Part Number Table

| Description | Part Number |
|---|-------------|
| Acrylic Conformal Coating, 400ml, Aerosol | MC002230 |

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