

ACC12UVD CN POLYURETHANE UV and Moisture Dual Conformal Coating

Introduction

ACC12UVD CN is a special formulated transparent 1-part PU UV and room temperature moisture vulcanized conformal coating for the protection of electronic circuitry designed to meet the highest defense and military standards. The product is available in bulk form.

Key Features

- 100% solid, UV and room temperature moisture dual curing.
- Excellent adhesion
- Excellent resistance
- Contains no harmful toluene
- Fluorescent UV aid
- Wide temperature
- RoHS compliant

APPLICATION

The bulk product may be brushed onto the circuit. The thickness of the coating depends on the method of application. The single brushing gives a coating of 20-60 microns. The uncured redundant glue can be removed by alcohol or acetone. The product contains an UV trace to allow inspection of the board after coating to ensure complete and even coverage.

A good quality brush is needed and applied gently such as to achieve a good coating and not to disturb wiring.

The coating should be used under the 1000W 365nm UV light to cure. The un-vulcanized coating will be cured in 3 days at room temperature (25C, 50%RH)

CLEANING

The boards should be thoroughly cleaned before coating. This is required to ensure that satisfactory adhesion to the substrate is possible. Some flux residues must be removed, as they become corrosive if left on the PCB. CHT manufacture a range of 100% Ozone Friendly cleaning products - both solvent and water based. All clean to military standards (please contact CHT for further information).

Property

Test Method

Value

Uncured Product

Appearance	Translucent	Transparent liquid without color or light yellow
Density (25°C, g/ml)	ASTM D70	1.03
Viscosity, (30°C mPa.s)	Brookfield RVF	100-200
Curing time		5sec/25sec (thickness 30-60 microns, 1000W 365nm)

Cured coating

Temperature range:		-40 to + 130C
Youngs Modulus:		230 MPa@25C
Hardness:	ASTM D 2240-95	60 °Shore A
Volume resistance($\Omega \cdot \text{cm}$):	ASTM D257	1.33×10^{15}
Dielectric Strength:	ASTM D-149	60 kV/mm
Dielectric constant (1MHz):	ASTM D150	4.79@100MHz
Dissipation factor:	ASTM D150	0.013@100MHZ
Solvent resistance:		Good

Storage / Shelf life

If the material is stored in original unopened package, a period of 6 months is warranted between 0~25°C.
Note: Storage temperatures above 30°C may cause instability.

Health and Safety

Health and safety sheet available separately

Packaging

Contact your regional sales representative.

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Disclaimer: -

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