CHEMTRONICS Technical Data Sheet

TDS # CTUFD1

Konform® Ultra Fast Dry Acrylic Conformal Coating

PRODUCT DESCRIPTION

Konform® Ultra Fast Dry Acrylic Conformal Coating is formulated to provide maximum process throughput while also maximizing insulation protection against high-voltage arcing and corona shorts. The product dries to the touch rapidly allowing for fast and efficient handling. This extremely effective acrylic conformal coating provides a hard, durable protective barrier against humidity, salt, corrosive vapors and fungus for printed circuit board and electronic assemblies. Coating meets IPC-CC-830B Class B and sections of MIL-I-46058C, Type AR.

- Extremely fast drying allows quick throughput, minimizes processing time
- Excellent dielectric strength; superior insulation performance
- Protects in hash environments
- Increases life of electronic assemblies
- No discoloration under normal use
- Contains a UV indicator for Quality Control inspection using medium intensity light at 265-335 nm

TYPICAL APPLICATIONS

Fast Dry Acrylic Conformal Coating[®] is ideal for applications in:

- Aerospace
- Data Communications
- Instrumentation
- Automotive Manufacturing
- Marine Manufacturing
- Process Control

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Usable Temp. Range	-75°F to 270°F				
of Cured Coatings	(-59°C to 132°C)				
Tack Free Time	10 min.				
Curing Conditions	24 Hours @ 77°F (25°C)				
(@ 80% R.H.)	8 Hours @ 130°F (54.5°C)				
Specific Gravity	0.88				
(Water=1) @ 68°F	(Liquid Only)				
Viscosity (cps @ 77°	F) $23 \pm 5 \text{ cps}$				
Flash Point (TCC)	30°F				
Dielectric Strength (volts/mil) 2,000 volts/mil				
Dielectric Breakdown (volts/mil) 8300					
Coverage	254.0 mil sq. ft.				
(1 mil/ft^2)	20.2 mil sq. ft.				
Shelflife	2 years				
RoHS Compliant	RoHS				
•	WEEE				
	Compliant				
CARB & OTC	45% VOC				
VOC Content					
SCAQMD	737g/L				
VOC Content					

*Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

COMPATIBILITY

Konform® Ultra Conformal Coating is generally compatible with most materials found on printed circuit boards. As with any chemical product, product/component compatibility must be determined on a non-critical area prior to use.

<u>Performance</u>					
Moisture Resistance	Good				
Removability	Excellent				
Ease of Repair	Excellent				
Flexibility	Fair				
Adhesion	Excellent				
Abrasion Resistance	Excellent				
Solvent Resistance	Fair				

USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

Before applying Konform® Ultra Conformal Coating, clean circuit boards thoroughly to remove oil, grease, dirt, flux and all other types of contamination. Allow to dry. Cleaning may be performed with Chemtronics® Electro-Wash® or Eco-Rite™ degreasing products.

SPRAY APPLICATION: Apply top to bottom, allowing coating to flow evenly around components. Rotate PCB 90° and repeat application. Rotate and apply coating two additional times, then allow board to cure. If additional thickness is desired, apply additional coatings. When using liquid spray with automatic dispensing equipment, adjustments may be required in application rate and viscosity.

DIP APPLICATION: Using automatic equipment or hand immersion technique, slowly immerse PCB into the coating and remove slowly. Use an average rate of approximately 1 foot per minute. After allowing the board to cure, process may be repeated to achieve desired thickness.

BRUSH APPLICATION: Evenly apply coating to areas desired at thickness required. Allow time for curing before reapplying to achieve a thick coating. Use Chemask® to protect components during conformal coating process.

REMOVAL: After application, cured Konform® Ultra Conformal Coating may be removed by

soaking in acetone or Chemtronics Electro-Wash[®] Two Step.

AVAILABILITY

CTUFD-12	11.5 oz. Aerosol
CTUFD1	1 Gallon Liquid
CTUFD5	5 Gallon Liquid
CTUFD55	55 Gallon Liquid

TECHNICAL & APPLICATION ASSISTANCE

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401.**

NOTE: This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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