CHEMTRONICS®
Technical Data Sheet

TDS # CTAR

Konform® AR

PRODUCT DESCRIPTION

Konform® AR is ideal for providing insulation against high-voltage arcing and corona shorts. 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. Konform® AR resin meets MIL-I-46058C, Type AR.

- Clear transparent coating
- Excellent dielectric strength
- Helps prevent arcing and shorts
- Increases life of electronic assemblies
- Will not discolor over time under normal use
- Contains a UV indicator for thorough Quality Control inspection
- UL Recognized, File E76307

TYPICAL APPLICATIONS

Konform® AR is ideal for applications in:

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

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Usable Temp. Range of Cured Coatings		-75°F to 270°F (-59°C to 132°C)
Tack Free Time		30 min.
Curing Conditions (@ 80% R.H.)		24 Hours @ 77°F (25°C) 8 Hours @ 170°F (77°C)
Specific Gravity (Water=1) @ 68°F		0.93 (Liquid Only)
Viscosity (cps @ 77°F)		70± 5 cps
Flash Point (TCC)		30°F
Volume Resistivity (ohm/cm)		1×10^{14}
Dielectric Breakdown (volts/mil)		8300
Comparative Tracking Index (CTI)		250 (PLC of 2)
Coefficient of Thermal Expansion (in/in/°C)		5×10^{-5}
Coverage ($1 mil/ft^2$)	CTAR-1 CTAR-12	254.0 20.2
Shelflife		2 years
RoHS/WEEE Status		RoHS WEEE Compliant

COMPATIBILITY

Konform® AR 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.

Performance	
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® AR conformal coatings, clean circuit boards to remove contamination and allow to dry. Cleaning may be performed with Chemtronics® Electro-Wash® NX or Electro-Wash® PX.

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 APPLICATIONS: 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® AR may be removed by soaking in Chemtronics® Electro-Wash® Two Step or an aromatic solvent (such as xylene), or a short chain ketone (such as acetone).

AVAILABILITY
CTAR-12 11.5 oz. Aerosol CTAR-1 1 Gal. Liquid

ENVIRONMENTAL IMPACT DATA

(For Aerosol Product)

ENVIRONMENTAL IMPACT DATA			
CFC	0.0%	VOC	88.9%
HCFC	0.0%	HFC	0.0%
Cl. Solv.	0.0%	ODP	0.00

CFC, HCFC, CL. SOLV., VOC, and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990.

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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