

**Technical Data Sheet****Konform<sup>®</sup> SR High Viscosity****PRODUCT DESCRIPTION**

Konform<sup>®</sup> SR High Viscosity provides maximum coverage where good flexibility is required, or where extreme temperatures can be encountered. This transparent coating provides ideal protection for both rigid and flexible printed circuit boards. Cured coatings are hydrolytically stable and retain their physical electrical properties after high temperature and humidity exposure. Konform<sup>®</sup> SR High Viscosity will not stress delicate circuit components.

- Extends component life by protecting against adverse environments
- Good insulation properties, excellent flexibility
- Resists moisture, salt, fungus, corrosive vapors, and severe environments
- Engineered to withstand heat generated by electronic circuitry as well as climatic temperatures
- Contains a UV indicator for thorough Quality Control inspection

**TYPICAL APPLICATIONS**

Konform<sup>®</sup> SR High Viscosity is ideal for applications in:

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

**TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES**

<b>Usable Temp. Range of Cured Coatings</b>	(-85°F to 390°F) (-65°C to 200°C)
<b>Tack Free Time</b>	30 Min. to 1 Hour
<b>Curing Conditions (@ 80% R.H.)</b>	24 Hours @ 77°F (25°C) 8 Hours @ 170°F (77°C)
<b>Specific Gravity (Water=1) @ 68°F</b>	1.00
<b>Viscosity (cps @ 77°F)</b>	120 cps
<b>Flash Point (TCC)</b>	60°F
<b>Volume Resistivity (ohm/cm)</b>	$1.5 \times 10^{16}$
<b>Dielectric Strength (volts/mil)</b>	1100
<b>Coefficient of Thermal Expansion (in/in/°C)</b>	$2.1 \times 10^{-4}$
<b>Coverage (2 mil/ft<sup>2</sup>)</b>	718.5
<b>Shelflife</b>	1 year

**COMPATIBILITY**

Konform<sup>®</sup> SR High Viscosity 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	Excellent
Removability	Excellent
Ease of Repair	Excellent
Flexibility	Excellent
Adhesion	Excellent
Abrasion Resistance	Fair
Solvent Resistance	Good

### **USAGE INSTRUCTIONS**

For industrial use only.

Read MSDS carefully prior to use.

Before applying Konform<sup>®</sup> SR High Viscosity conformal coatings, clean circuit boards to remove contamination and allow to dry.

Cleaning may be performed with Chemtronics Electro-Wash<sup>®</sup> PX, Electro-Wash<sup>®</sup> CZ, or high purity acetone.

**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<sup>®</sup> to protect components during conformal coating process.

**REMOVAL:** After application, cured Konform<sup>®</sup> SR High Viscosity may be removed by soaking in Chemtronics<sup>®</sup> Electro-Wash<sup>®</sup> Two Step, or an aromatic solvent (such as xylene), or a short chain ketone (such as acetone).

### **AVAILABILITY**

CTSR-HV1 1 Gal. Liquid

CTSR-HV5 5 Gal. 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.

### **CHEMTRONICS**

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