

## Ultralane<sup>®</sup> 766A/B

### POLYURETHANE PRIMER & CONFORMAL COATING

Ultralane 766A/B is an optically clear, low viscosity, long pot-life coating with excellent adhesion to ABS, nylon, and other rigid plastics as well as glass, wood, and most metals. It is a tough, peel resistant coating that is often used as a primer to bond castable urethane systems to plastics and metal. It also serves as an excellent conformal coating for circuit boards. The Ultralane 766A/B exhibits excellent electrical properties, moisture resistance, and contains a fluorescent tracer that glows blue-white when exposed to a black light. This feature allows the coating to be inspected to verify uniform coverage.

The Ultralane<sup>®</sup> 766A/B system is clear, but can be ordered in custom colors by request. Many other custom variations are available to meet your requirements. Please contact us to discuss your application if a custom variant might be desirable for your needs.

#### SUGGESTED APPLICATIONS:

- Primer for ABS and other plastics, metals, etc. – improves adhesion of urethane casting compounds to primed surfaces.
- Conformal coating of Circuit boards and other electronic assemblies

<b>HANDLING PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
<u>Ultralane 766A (resin)</u>		
Visual Appearance	Clear Liquid	
Density, Part A	0.95 g/cm <sup>3</sup>	ASTM E-201
Viscosity, Part A, @ 25°C	150 cps	ASTM D-2393
Flash Point	115°F (46.1°C)	ASTM D-92
Solids Content	48% - 52%	
<u>Ultralane 766B (hardener)</u>		
Visual Appearance	Clear Liquid	
Density,	1.13 g/cm <sup>3</sup>	ASTM E-201
Viscosity, Part B, @ 25°C	450 cps	ASTM D-2393
Flash Point	179.6°F (82°C)	ASTM D-92
Solids Content	58% - 62%	
Mixed Viscosity @ 25°C	300 cps	ASTM D-2393
Solids Content	54 %– 56%	
Mix Ratio:	100A : 100B by weight or volume	
Work Life @ 25°C, 100g mass	> 8 hours	
Tack-free time @ 25°C	5 - 8 hours	
Tack-free time @ 65°C	1.5 - 2 hours	
Cure Schedules:	3-7 days at room temperature for full cure <b>or</b> 4 hours 65°C	

<b>CURED PROPERTIES</b>	<b>VALUE</b>	<b>TEST METHOD</b>
Appearance	Optically Clear	Visual
Dielectric Strength at 25 °C	>1000 V/mil	ASTM D-149
Dielectric Constant at 25°C & 1 MHz	1.5	ASTM D-150

## **PROCESSING AND APPLICATION INSTRUCTIONS :**

To use, weigh Part A and Part B into a clean mixing container. Mixing containers should preferably be made of polypropylene, polyethylene, glass, or non-corroding metal. (Stainless steel, aluminum, etc.). Always use weighing equipment having accuracy that is  $\pm 1\%$  or less of the smallest quantity that you will be weighing. Blend Parts A & B thoroughly using a spatula or stirring stick for at least 2 minutes using a kneading motion. Scrape the bottom and sides of the mixing container carefully and frequently to produce a uniform mixture.

The mixed coating can be applied by bursh, by dipping, or by spraying. Dependign on the type of spraying equipment ot be used, it be desirable to use Ultralane Thinner to reduce the coating viscosity prior to spraying. For most equipment the addition of 20 – 50 parts of Ultralane Thinner per 100 parts by weight or volume of the Ultralane 766A/B will be sufficient to provide a suitable viscosity. Other solvent blends that are non-reactive may be used for thinning, but must be urethane grade solvents to ensure that the coating is not compromised. Please note that the addition of thinners will typically reduce the thickness of the dried coating layer and will tend to extend the pot life of the mixed material. Slow evaporating thinners may also lengthen the tack-free time of the coating and/or the time to achieve a full cure.

For priming applications, the coating should be allowed a minimum of 8 hours at 25°C or 2 hours @ 65°C prior to application of the castable urethane system.

## **PACKAGING AVAILABLE:**

This product is available in Quart kits, gallon kits and 5-gallon pail kits. Other package sizes and kitting for field use is available as a special quote.

## **STORAGE GUIDELINES:**

Store these materials in a clean, cool and dry environment in their tightly closed original containers. Protect from extended exposure to temperatures below 15°C (59°F). Crystallization may occur if the material is exposed to cold for extend periods. If this occurs, heat the entire container for 4 hours at 40°C (104°F) to re-liquefy the material. Allow to cool to ambient temperature prior to using. Also protect from exposure to moisture or high humidity. Tightly re-seal containers after use. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months from the date of shipment.

## **HANDLING PRECAUTIONS:**

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

## PERSONAL HYGIENE:

### **Ultralane 766A**

**WARNING! Flammable, keep away from flame, heat & sparks.** Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be Harmful if inhaled. May cause eye & skin irritation. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

### **Ultralane 766B**

**WARNING! Flammable, keep away from flame, heat & sparks.** Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be Harmful if inhaled. May cause eye & skin irritation. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

## FIRST AID

In case of contact:

**Skin** – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

**Eyes** – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

**Inhalation** - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

**Ingestion** - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

## DISCLAIMER:

**IMPORTANT:** The following supercedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended

### **Specialty Polymers & Services, Inc. (SP&S)**

27822 Fremont Court

Valencia, CA 91355

[www.spolymers.com](http://www.spolymers.com)

Tel: 661-294-1790

Fax : 661-294-0640

info@spolymers.com