

Ultralane[®] 787A/B

POLYURETHANE CASTING & ENCAPSULATING SYSTEM

Ultralane[®] 78A/B is a low viscosity, flexible casting & encapsulating system. It contains no MOCA or TDI and cures at room temperature or can be heat cured. The system generates very little exothermic heat during curing, allowing it to be cast in up to 2" thick sections. Ultralane[®] 78A/B cures to a natural translucent yellow color and is easy to pigment using our Epoxicolor or Reactint colorants. The cured polymer is tough, moisture resistant, and is expected to provide low outgassing results when fully cured.

The Ultralane[®] 787A/B system can be ordered in custom colors and if required, can be supplied with UV stabilizers or anti-oxidants added to protect against extended exposure to UV light or high temperatures in use. Many other custom variations are available to meet your requirements. Please contact us to discuss your application if you'd like to receive samples of a custom color or to discuss a custom variant that would be suitable for your application.

SUGGESTED APPLICATIONS:

- Encapsulating Stress Sensitive Devices

HANDLING PROPERTIES	VALUE	TEST METHOD
<u>Ultralane 787A (resin/pre-polymer)</u>		
Visual Appearance	Yellow Liquid	
Viscosity	250 cps	
Density, Part A	1.21 g/cm ³	ASTM E-201
<u>Ultralane 787B (hardener/curative)</u>		
Visual Appearance	Clear to milky Liquid	
Viscosity	4,300 cps	
Density,	~0.92 g/cm ³	ASTM E-201
Mixed Viscosity @ 25°C	2,100 cps	ASTM D-2393
Mix Ratio by weight and volume:	25A:100B by weight	
Pot life, 100 gram mass	3 hours	
Cure Schedules: 3-7 days at room temperature or gel at 25°C for 3-4 hours then heat cure for 8 hours @ 80°C or 4 hours @ 95°C		

CURED PROPERTIES	VALUE	TEST METHOD
Density	1.16 g/cm ³	ASTMD-792
Hardness, Shore A	35 ± 5	ASTM D-2240

Data from laboratory testing – not intended for specification purposes.

Preliminary Product Datasheet

Developmental Material – specification not yet finalized



PROCESSING AND APPLICATION INSTRUCTIONS:

When ready 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.

For best results, vacuum de-gas the mixed material under vacuum prior to casting or use in encapsulation. The addition of a few drops of one of the products from our Airout line of air release agents may also be helpful in applications where vacuum de-gassing equipment is not available.

PACKAGING AVAILABLE:

This product is currently available in quart kits. Other package sizes available by request. Please call use with any special packaging requests or for information on custom kitting.

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 70°C to re-liquefy the material. Allow to cool to ambient temperature prior to using. Also protect the EpoPro 104A&B 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 787A

WARNING! 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 787B

CAUTION! In accord with good industrial practice, handle with due care. Could cause eye, skin, and respiratory irritation. Prolonged or repeated skin contact or inhalation of vapors may cause allergic skin or respiratory reactions. Harmful if inhaled or swallowed. 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.

FIRST AID

In case of contact with:

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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

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