

Ultralane 791

One Component, Moisture Curing Polyurethane Adhesive

Ultralane 791 is a 100% solids, one component, moisture curing polyurethane adhesive. It mildly foams during curing to provide good penetration of porous substrate and excellent gap filling results. Once fully cured, the adhesive is waterproof, acid-free, and very chemical and environmental resistant.

Ultralane 791 is excellent for bonding wood, leather, fabric, metals, Styrofoam & other foam materials, cardboard & paper products, stone, ceramics, most rubbers, and rigid plastics such as ABS or polycarbonate.

HANDLING PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Specific Gravity	1.12	ASTM E-201
Viscosity @ 25°C, cps	2,000	ASTM D-2393
Mix Ratio	one component	
Shelf-life @ 25°C	At least 12 months	
Time to Handling Strength:	3 -4 hours minimum	
<u>Cure Schedule:</u> Sets to > 90% of final strength in 24 hours at 25°C and 50% relative humidity, but 3–7 days may be required to achieve ultimate strength.		

PHYSICAL PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Color	Black or Amber	Visual
Shore D Hardness	75	ASTM D-2240
Tensile Lap Shear Strength		ASTM D-1102
Etched Aluminum to itself	602 psi	
Steel to Steel	698 psi	
Fiberglass to Fiberglass	598 psi*	
ABS to ABS	450 psi*	
Formica to Formica	710 psi*	
	<i>*Substrate failed rather than glue line.</i>	
Suggested Temperature Range of Use	-20°F to 250° F	

NOTE : Typical Properties determined using Ultralane 791 cured for 7 days at 25°C. Values are based on laboratory or average production results – not for specification purposes.

SUGGESTED PROCESSING GUIDELINES:

Ultralane 791 can be applied manually applied by brushing, knife, spatula, or injection. For best results use only on clean, oil and dust free, surfaces. Remove any debris or loose material prior to bonding to ensure best bond strength.

If the humidity in the work are is less than 50% relative humidity consider wiping the surface to by bonded with a lightly dampened sponge or misting the adhesive lightly with water just prior to assembling the surfaces together. For best results, we suggest that parts be assembled within 15 minutes after application of the adhesive. Use clamps or other means to secure parts in place for at least 3-4 hours. Allow 24 hours for full handling strength to develop and up to 3 – 7 days for the ultimate strength to develop.

The adhesive will foam up during curing, for gap filling application allow for about a 2 -3 fold increase in the original volume of adhesive. Wipe or cut away the excess adhesive. Removing excess adhesive may be easiest 30 minutes – 3 hours after application as the adhesive will be firm, but still soft enough to cut without too much difficulty. Excess, uncured adhesive can also be wiped off using a cloth wet with acetone, MEK, Toluene, or Xylene.

STORAGE GUIDELINES:

Store this material in a clean, cool and dry environment in its tightly closed original container. Protect from moisture and humidity as this may cause a crust to form. Remove any crust that forms. Tightly re-seal after each 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 791

CAUTION! Will cause eye irritation. Prolonged or repeated skin contact may cause irritation, may cause allergic skin reaction. 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. 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 supersedes 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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