

LAMMAXTM

CLEAR RIGID LAMINATING RESIN

Two Part A+B Liquid Crystal Clear
RIGID LAMINATING RESIN
Formulated for the O&P Professional,
providing unmatched balance of strength,
rigidity, toughness, wet-out and clarity.

Non-hazmat fast gelling but slow curing
non-yellowing Urethane based
Rigid Laminating Resin.
Produces strong, hard and tough
high gloss crystal clear laminations.
No hardener paste/powder required.



SKU: LAM

See Reverse Side for Product Technical Information

HARD, TOUGH & RIGID NON-HAZMAT LAMINATING RESIN 1.6 : 1 MIX RATIO BY WEIGHT

- *Extremely easy to work with, providing good fiber wet out, suitable for laminating all types of rigid Prosthetic containment sockets.*
- *Produces bubble free socket laminations. Fully compatible with LamFlex resin for fabricating hybrid sockets with flexible brims.*
- *Available in 1.5 Kg A+B Kits for convenient usage and storage.*



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LAMMAX Resin

Product Technical Information Sheet

- ♦ Slow curing formula with very low volatile emissions.
- ♦ Transparent cured resin color with crystal clear clarity.
- ♦ Provides excellent fiber wet out and adhesion.
- ♦ Zero shrinkage after completion of full cure cycle.
- ♦ Easily pigmented to any desired color, non-yellowing.
- ♦ Shelf life of up to 6 months with proper storage, (between 50°F / 10°C and 82°F / 28°C).
- ♦ 2 layers of LimTex braid sandwiched between 2 layers of carbon braid will produce a stiff and light weight socket.
- ♦ Skin friendly smooth and low friction surfaces.
- ♦ The edges are easily sanded and buffed to a fine, smooth and clean edge finish.
- ♦ Does not liberate gas and will not develop air pockets during the curing process.
- ♦ Fully compatible for combined hybrid use with our LAMFLEX flexible Urethane Laminating Resin.

LAMMAX is a non-hazmat fast gelling but slow curing Urethane based resin specifically formulated for laminating rigid Prosthetic Sockets, that requires a 4-hour cure cycle before the socket can be tooled.

IMPORTANT NOTE: Use the included PVA bag release agent wipes to wipe down the surfaces of the PVA bags that will be in direct contact with the wet resin. If this step is not followed correctly, the PVA bag will stick to the cured resin. Follow the instructions on the release agent wipe zip lock bag.

LAMMAX is formulated to have a Gel Time of between 13~ 16 minutes at a shop temperature of 75°F / 24°C and humidity of 50%. A higher shop temperature and humidity will shorten the gel time and speed up the curing process. The Vacuum can typically be turned off after 30 minutes. The lamination can typically be demolded and torn down after 4 hours. The full hard and dry through cure cycle time takes up to 8 hours to complete.

Use a precision scale to weigh the resins into the mix container using a ratio of **1.6 : 1** to achieve consistent results. The combined Part A & Part B resins must be thoroughly mixed for a minimum of 2 minutes.

Warm the cast to 24°C / 75°F and laminate over as dry a cast as possible to achieve the best results.

If it is not possible to have a dry cast, we recommend that you seal the surface of the cast with a resin coating, or use a Latex Isolation Sheath to isolate the moisture in the cast.

Warmer summer shop temperatures will reduce the viscosity and speed up the Gel Time. (12 minutes @ 28°C)
Cooler winter shop temperatures will increase the viscosity and slow down the Gel Time. (18 minutes @ 20°C)
Before demolding, always check to make sure that the resin has fully cured.

LAMMAX will achieve high strength, hardness and toughness after a cure cycle time of 8 ~ 10 hours. The level of required stiffness can be regulated by the number of reinforcement fiber layers and by ordering the layers of LimTex and Carbon fiber braids to create an I beam effect. (sandwich the LimTex between the layers of carbon braid)

LAMMAX is suitable and compatible for use with LimTex braid, carbon, nyglass, kevlar, nylon textile fiber hose, fiber-glass and other braided/woven reinforcement materials.

Storage of LAMMAX resin beyond the date specified on the Label does not necessarily mean that the product is no longer usable. In this case however, a performance test must be done on a small 50g sample of resin to determine its suitability for the intended usage. Contact our office for more technical information and fabrication tips.

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