LAMFLEX™ ©

CLEAR FLEXIBLE RESIN

Two Part A+B Crystal Clear **FLEXIBLE** Urethane laminating **RESIN**
Formulated for the O&P Professional, providing unmatched balance of flexibility, softness, strength, clarity and toughness.

Non-hazmat fast gelling but slow curing Urethane based flexible laminating resin.
Produces silky smooth high gloss crystal clear laminations.
No hardener paste/powder required.

SKU: LFX

See Reverse Side for Product Technical Information Sheet

SOFT & FLEXIBLE NON-HAZMAT LAMINATING RESIN 1:1 MIX RATIO BY WEIGHT

- *Extremely easy to work with, providing good fiber wet out, excellent for laminating thin wall flexible liners or sockets with clean edges.*
- *Produces bubble free socket laminations with high flexibility and toughness, good softness and a surface that is as slippery as ice.*
- *Available in half-gallon A+B Kits for convenient usage and storage.*

ORTHOLAM Inc. USA
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LAMFLEX Resin

Product Technical Information Sheet

- **Slow curing formula with very low volatile emissions.**
- **Good choice of resin for flexible socket liner applications.**
- **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).**
- **Four layers of perlon stockinette will produce a nice flexible socket liner. (no more drape molding of liners)**
- **The edges are easily trimmed with a sharp utility knife to a fine smooth and clean edge finish.**
- **Provides a very soft and smooth skin friendly surface that will not hang up or snag when donning or doffing the liner or the socket.**
- **Transparent cured resin color with crystal clear clarity.**
- **Does not liberate gas and will not develop air pockets during the curing process.**
- **Fully compatible for combined use with our LAMMAX Rigid Urethane Laminating Resin.**

LAMFLEX is a non-hazmat fast gelling but slow curing Urethane based **FLEXIBLE LAMINATING RESIN**, specifically formulated for laminating Prosthetic Socket Liners and Sockets, that requires a 12-hour overnight 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.

LAMFLEX is formulated to have a Gel Time of between 10 ~ 13 minutes when equal quantities of Part A & Part B by weight are mixed together, at a shop temperature of 75°F / 24°C and humidity of 50%. The Vacuum can typically be turned off after 20 minutes. The full surface dry cure cycle time takes up to 12 hours to complete.

Use a precision scale to weigh the resin into the mix container 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. (10 minutes @ 28°C)

Cooler winter shop temperatures will increase the viscosity and slow down the Gel Time. (15 minutes @ 20°C)

Before demolding, always check to make sure that the resin has fully cured.

LAMFLEX will achieve high strength and toughness after a total cure cycle time of 12 hours. The level of required stiffness can be regulated by fiber layering and also by adding carbon fiber struts to selected areas of your socket.

LAMFLEX is suitable and compatible for use with LimTex braided sleeving, carbon, glass, aramid and kevlar braided reinforcement materials plus nylon and Nyglass knitted stockinette materials.

Storage of **LAMFLEX** 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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