

NON-FLAMMABLE AND ODORLESS RESIN WITH A NEW DIMENSION

ECOLAM

ADVANCED FAST SETTING EPOXACRYL RESIN



TM

©

**FAST
SETTING
FORMULA**

SKU: ECL-XS

**VERY LOW INNOCUOUS ODOR
VERY LOW VOLATILES
FAST SETTING FORMULA
CURES TO A CLEAR COLOR
HIGH FLEXURAL STRENGTH
EASY TO USE
NON FLAMMABLE
CREATES A SAFER WORK AREA**

Almost **Zero Hazardous Emissions**
No Hazmat Fees



See reverse side for Product Technical Information Sheet

- Extremely easy to work with and pigment, allowing you to fabricate rigid thin wall fabrications with smooth finished edges, minimal flexibility and good surface gloss with a scratch and mar resistant surface for improved aesthetic durability.
- Produces bubble and tack free laminates with high flexural strength, fracture toughness and excellent fiber wet out that saves you time, money, increases shop productivity, and will not crush your liners from excessive pressure while curing.
- Available in 1, 2 and 4 Gallon Jug Kits. BP100 Paste Hardener sold separately.

ORTHOLAM

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ECOLAM Xs EPOXACRYL RESIN

Product Technical Information Sheet ©



- ™ ♦ The most eco-friendly vacuum bagging resin.
- ♦ Almost Zero hazardous emissions and very low odor.
- ♦ Non-flammable formula, making it one of the safest resins on the market.
- ♦ Fast curing formula with good surface gloss.
- ♦ Clear cured resin color with improved clarity that can be pigmented to any desired color.
- ♦ Provides excellent fiber wet out, saturation and adhesion.
- ♦ Increased shelf life up to 12 months with proper storage, (between 50°F / 10°C and 82°F / 28°C)
- ♦ Fabricates high quality light weight sockets.
- ♦ Low shrinkage of less than 3% with zero stress cracking or shrinkage defects.
- ♦ Will not foam or liberate gas when cured in contact with moisture, which means that you can laminate over a damp cast.
- ♦ Supports a safer and healthier work environment.
- ♦ Increased fab shop productivity and cost savings.

ECOLAM Xs is a high performance thermoset vacuum bagging resin that provides exceptional physical properties and fracture toughness when fully cured at room temperature, as well as ease of use, meeting the needs of the modern Prosthetic and Orthotic industry. [Also available in a high viscosity - HSG - high surface gloss version.]

ECOLAM Xs is formulated to have a gel time of between 11 ~ 15 minutes when combined with the recommended 2% BP100 paste hardener, measured by mass or volume, with a shop temperature of 75°F / 24°C.

Please use a precision scale or a volumetric measuring cup to measure the Resin and Hardener to achieve consistent results. NOTE: BP100 paste hardener must be thoroughly and evenly dispersed into this resin using a drill driven mixing impellor for approximately 30 seconds to achieve the best results.

Warmer summer shop temperatures will reduce the viscosity and speed up the curing time. (10 minutes @ 28°C)

Cooler winter shop temperatures will increase the viscosity and slow down the curing time. (16 minutes @ 20°C)

The cure rate of ECOLAM Xs resin is volume and temperature sensitive.

Thin wall sections may require the application of some external heat to speed up the cure.

The fabricated part will achieve high strength with a dust dry and very smooth glossy surface, however, it will continue to get harder, stronger and tougher for up to 48 hours.

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

ECOLAM Xs is formulated for use with both braided and knitted carbon, glass, kevlar and all synthetic textile fiber reinforcement materials.

To achieve the best results, always laminate over as dry a cast as possible. If it is not possible and your cast is damp, we recommend that you seal the surface of the cast with a lacquer coating, or use one of our Latex Isolation Sheaths and a PVA release bag/film to isolate the resin from the moisture.

Remember to dry the inner and outer PVA vacuum bag surfaces.

Storage of ECOLAM Xs 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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