



TOOLING & COMPOSITES

Jpoxypolymers manufactures a range of gel coat, laminating systems and casting resins for epoxy tooling systems. These speciality epoxy tooling system form an ideal lay up tools for prepregs, master models, negative models and foundry patterns for foundries and ceramic industry.

Jpoxypolymers Gel Coats form a preferred first surface of a composite mould. They can be applied in reasonable thickness in single coats and stick to inclined surfaces of the mould, multiple coats can be applied to achieve thickness. The cured gelcoat offers a highly polishable and durable surface to epoxy based moulds.

Jpoxypolymers Laminating system are a preferred choice to construct high performance composite tooling prototype and/or production parts when used with reinforcing fabrics. They offer excellent wet out of reinforcing fabrics such as fiber glass or carbon fibers and when cured have excellent mechanical properties and chemical resistance.

Jpoxypolymers Casting System are a preferred choice for making durable moulds, models and tools having high mechanical strength. Jpoxypolymers Casting Systems can be used to cast thickness upto 100 mm and are the cured cast in machine able.

JPOXY POLYMERS LLP

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APPLICATION STEPS

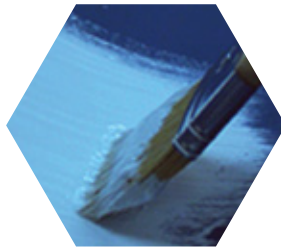
SURFACE PREPARATION



MIX TWO COMPONENTS

GEL COAT SYSTEMS

Apply mould releasing agent on the surface of the mould and then apply 2 – 3 coats of the gel coat, allow it to cure.

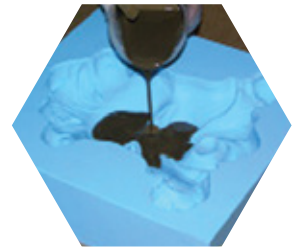


LAMINATING SYSTEMS

- Lay the 100-650 gsm of glass fiber/carbon fiber on the surface.
- Apply 2 or 3 coats of the mixture again.
- Pour the laminating resin onto the fiberglass and spread

CASTING SYSTEMS

- Mix the three components together thoroughly for at least 2 minutes so as to achieve uniform mixing
- Slowly pour the mix, allow the mix to settle & level properly



SELECTOR GUIDE

MR. JO Lami-HV

System Properties	Color: Clear Pot life @25°C: 100-150 mins Mixing Ratio: 100:10 PBW Mixture consistency: Medium Viscous liquid Optics: Transparent
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Recommended Applications	Industrial composites, Structural Composites, Glass fiber laminates
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Packing	1.1 kg
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MR. JO Lami-LV

System Properties	Color: Clear Pot life @25°C: 100-150 mins Mixing Ratio: 100:10 PBW Mixture consistency: low Viscosity liquid Optics: Transparent
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Recommended Applications	Glass fiber laminates, Lamination tools, Composites
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Packing	1.1 kg
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MR. JO Gelkot-BLU

System Properties	Color: Blue Pot life @25°C: 20-30 mins Mixing Ratio: 100:14 PBW Mixture consistency: Thixotropic Blue paste Optics: Opaque
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Recommended Applications	Working model for ceramic industry, Gelcoat, Negative & laminating molds, Foundry patterns
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Packing	5.7 kg
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MR. JO Gelkot-BLK

System Properties	Color: Black Pot life @25°C: 20-30 mins Mixing Ratio: 100:16 PBW Mixture consistency: Thixotropic black paste Optics: Opaque
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Recommended Applications	Working model for ceramic industry, Gelcoat, Negative & laminating molds, Foundry patterns
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Packing	5.8 kg
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MR. JO Gelkot-WHT

System Properties	Color: White Pot life @25°C: 20-30 mins Mixing Ratio: 100:14 PBW Mixture consistency: Thixotropic white paste Optics: Opaque
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Recommended Applications	Working model for ceramic industry, Gelcoat, Negative & laminating molds, Foundry patterns
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Packing	5.7 kg
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* For specialized system please contact Jpoxy technical support team.

GEL COAT:

Gel coat gives impression to laminating system to meet the desired tooling demand. Technically, it is a surface coating of epoxy system which gels against the mold surface and cures with the structural laminate.

LAMINATING SYSTEM:

Epoxy laminating system formulated to manufacture high performance structures with or without post-curing. The resulting structures will have very good mechanical properties. The system provides strength to mould and is suitable for casting and tooling.

CASTING SYSTEM

Epoxy casting system is suitable to make moulds, model and tooling parts with high mechanical and thermal resistance which provide liability to vary the thickness of castables.

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FLOORING & COATINGS | TILE GROUT | **TOOLING & COMPOSITES** | PROTECTIVE COATINGS | ADHESIVE | INJECTION GROUT | MACHINE FOUNDATION GROUT | MARBLE & STONE | RESIN ART