RESINIFY — INSTRUCTIONS FOR USE (IFU)

ResinMax — High-Performance General-Purpose Engineering Resin For Strong, Durable Prototyping & Functional Parts Across All Engineering Applications

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1. Product Overview

ResinMax is a **balanced, high-performance engineering resin** designed for strong, durable, and dimensionally stable functional parts. It provides excellent mechanical properties, good impact strength, and reliable printability across a wide range of engineering applications. Ideal for structural prototypes, mechanical components, functional assemblies, jigs, fixtures, housings, and consumer product parts.

2. Printer Compatibility

- LCD / mSLA / DLP printers
- 385–405 nm wavelength
- Optimized for reliable, repeatable printing

3. Printing Instructions

Parameter	Recommended
Layer Height	50 µm (25–100 µm compatible)
Normal Exposure	2.8–3.8 sec
Bottom Exposure	40–55 sec
Bottom Layers	6–8
Lift Speed	Medium

Parameter	Recommended
Light-Off Delay	Enabled

Support Tips:

- Medium supports for most mechanical designs.
- Angle large surfaces 20–30° to minimize suction.
- Reinforce tall or thin sections to prevent micro-shift.

4. Cleaning Instructions

- Wash **2–3 minutes** using IPA or resin cleaner.
- Do not over-wash, as it may reduce mechanical toughness.
- Allow parts to fully dry before curing.

5. Post-Curing Instructions

- UV cure **15–25 minutes**.
- Optional heat cure: **50–60°C for 10 minutes** to increase strength and modulus.
- Avoid excessive curing that may introduce brittleness.

6. Usage Guidelines

- Excellent for general engineering prototypes requiring strength + accuracy.
- Good machinability with fine tools.
- Compatible with drilling, tapping, bonding, sanding, and finishing.
- Ideal all-purpose resin when flexibility and strength must be balanced.

7. Safety & Disposal

- Wear nitrile gloves and eye protection.
- Avoid prolonged skin contact.
- Cure all liquid waste before disposal.
- Dispose of IPA according to local environmental guidelines.