**Teexpert TPUS-ER001**

# Teexpert Crystal Clear Epoxy Resin Kit User Manual

Model: TPUS-ER001

Introduction Safety Information Product Components Setup Operating Instructions Maintenance Troubleshooting Specifications Warranty & Support

## 1. Introduction

This manual provides comprehensive instructions for the safe and effective use of the Teexpert Crystal Clear Epoxy Resin Kit. This 1-gallon kit is designed for various art and craft projects, including casting, coating, jewelry making, table tops, and woodworking. It features a 1:1 mixing ratio, self-leveling properties, and a high-gloss, bubble-free finish.




Image: The Teexpert Crystal Clear Epoxy Resin Kit, showing two bottles (Resin A and Hardener B) and a finished resin art piece.

## 2. Safety Information

The Teexpert Epoxy Resin Kit is formulated to be low odor, non-toxic, non-flammable, and non-hazardous, containing no VOCs or solvents. However, it is essential to follow safety precautions during use:

- Work in a well-ventilated area.
- Wear appropriate personal protective equipment, including gloves and eye protection, to prevent skin and eye contact.
- Avoid ingestion. In case of accidental ingestion, seek medical attention immediately.
- Keep out of reach of children and pets.
- Store in a cool, dry place away from direct sunlight and heat sources.




Image: Visual representation of the safety features of Teexpert Epoxy Resin, highlighting non-flammable, non-toxic, low odor, and no VOCs.

## 3. Product Components

The Teexpert Crystal Clear Epoxy Resin Kit (1 Gallon) includes:

- 1 bottle of Epoxy Resin (Part A), 64 fl oz
- 1 bottle of Epoxy Hardener (Part B), 64 fl oz
- 2 pump dispensers for easy and clean measurement




Image: A close-up view of the pump dispenser, illustrating its ergonomic design for precise control and drip-free dispensing.

## 4. Setup

Proper preparation is key to achieving optimal results with epoxy resin. Follow these steps before mixing:

1. **Prepare Your Workspace:** Ensure your work area is clean, level, and well-ventilated. Cover surfaces with plastic sheeting or wax paper to protect against spills.
2. **Gather Materials:** You will need the Teexpert Epoxy Resin Kit, mixing cups (preferably with measurement markings), stirring sticks, protective gloves, safety glasses, and any molds, pigments, or items you plan to embed.
3. **Ensure Optimal Temperature:** For best results, the resin and hardener should be at room temperature (70-80°F or 21-27°C). If the bottles are cold, place them in a warm water bath for 10-15 minutes before use. This helps reduce viscosity and minimize bubbles.
4. **Attach Pumps:** Screw the provided pump dispensers onto the Resin (Part A) and Hardener (Part B) bottles. This ensures accurate 1:1 volume dispensing.



Image: A visual guide demonstrating the use of the pump dispenser for accurate and clean pouring of epoxy resin.

## 5. Operating Instructions

Follow these steps for mixing and applying the Teexpert Crystal Clear Epoxy Resin:

1. **Measure Accurately:** Dispense equal volumes of Resin (Part A) and Hardener (Part B) into a clean mixing cup. The ratio is 1:1 by volume. Using the pumps ensures precise measurement.
2. **Mix Thoroughly:** Stir the mixture slowly and continuously for 3-5 minutes. Scrape the sides and bottom of the cup to ensure both components are fully blended. Incomplete mixing will result in sticky or uncured resin. Avoid vigorous stirring to minimize air bubbles.
3. **Allow for De-gassing:** After mixing, let the resin stand for 5 minutes. This allows trapped air bubbles to rise to the surface and naturally dissipate due to the self-defoaming properties of the resin.
4. **Apply Resin:** Pour the mixed resin into your mold or onto your prepared surface. The resin has a working time of approximately 45 minutes at room temperature (70-80°F).
5. **Remove Remaining Bubbles (Optional):** For any stubborn bubbles, gently pass a heat gun or a butane torch quickly over the surface. Do not hold the heat source in one spot for too long.
6. **Curing:** The resin will be tack-free in 8-12 hours and fully cured in 24 hours at room temperature. Avoid disturbing the project during the curing process.



Image: A step-by-step illustration of the resin mixing and application process, from combining parts A and B to demolding the cured piece.




Image: A visual demonstration of the resin's auto-defoaming capability, showing the reduction of bubbles from initial mix to a clear finish.

## 6. Maintenance

Proper care extends the life of your tools and ensures the longevity of your resin creations:

- **Cleaning Tools:** Clean mixing cups and stirring sticks immediately after use with isopropyl alcohol or acetone before the resin cures. Once cured, epoxy resin is very difficult to remove.
- **Storage:** Store unused resin and hardener in their original sealed containers in a cool, dark, and dry place. Avoid extreme temperatures.
- **Finished Projects:** Cured resin projects can be cleaned with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals.
- **UV Resistance:** While Teexpert resin includes UV resistant formula, prolonged exposure to direct sunlight can still cause yellowing over many years. For maximum longevity, display finished pieces away from direct, intense UV

light.




Image: A visual comparison illustrating the anti-yellowing properties of Teexpert resin over time compared to other products.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| **Resin remains sticky or uncured:** | Incorrect 1:1 mixing ratio, insufficient mixing, or low ambient temperature. | Ensure precise 1:1 volume measurement. Mix thoroughly for 3-5 minutes, scraping sides and bottom. Work in a room temperature environment (70-80°F). |
| **Excessive bubbles:** | Vigorous mixing, cold resin, or pouring too quickly. | Mix slowly and gently. Warm bottles in a water bath before use. After pouring, use a heat gun or torch to remove surface bubbles. Allow resin to sit for 5 minutes after mixing for natural de-gassing. |
| **Yellowing over time:** | Prolonged exposure to UV light. | While Teexpert resin has UV inhibitors, minimize direct, intense sunlight exposure for long-term clarity. |
| **Uneven surface:** | Uneven application or non-level work surface. | Ensure your work surface is perfectly level before pouring. The resin is self-leveling, but a level base is crucial. |

## 8. Specifications

| Feature | Detail |
|---|---|
| **Brand** | Teexpert |
| **Model Number** | TPUS-ER001 |
| **Material** | Epoxy Resin |
| **Item Form** | Liquid |

| Feature | Detail |
|---|---|
| **Color** | Clear |
| **Item Volume** | 1 Gallon (128.0 Fluid Ounces total) |
| **Mixing Ratio** | 1:1 by volume (Resin:Hardener) |
| **Working Time** | Approx. 45 minutes (at 70-80°F) |
| **Full Cure Time** | 24 Hours (at 70-80°F) |
| **Special Features** | Bubble Free, Crystal Clear, Heat Resistant, Self-Leveling, Low Odor, Non-Toxic, UV Resistant |
| **Specific Uses** | Art, Casting, Jewelry, Table Top Coating, Woodworking |
| **Product Dimensions** | 10.3 x 5.31 x 10.04 inches |
| **Item Weight** | 1 pounds (Note: This is likely package weight; actual liquid weight will be higher.) |

## 9. Warranty & Support

**Warranty:** The Teexpert Crystal Clear Epoxy Resin Kit comes with a 2-year manufacturer's warranty.
**Customer Support:** For any questions, concerns, or technical assistance regarding your Teexpert product, please contact Teexpert customer service. Refer to the product packaging or the official Teexpert website for contact details.