



TECHNICAL DATA SHEET

Product: Delgon Laticare Premium Crystal Clear Epoxy Art Resin

Classification: Two-Component Thermosetting Polymer System (2:1 Ratio)

ISO Certification: Manufactured under ISO 9001:2015 Standards

1. Product Description

The **Delgon Laticare Premium Crystal Clear Epoxy Art Resin** is a professional-grade polymer system that bridges the gap between industrial reliability and artistic versatility. Unlike "white-label" brands that repackage generic resins, this product leverages foundational expertise in heavy-duty epoxy grouting to deliver superior structural integrity.

Engineered with a **2:1 mixing ratio**, the system provides a higher cross-link density than standard 1:1 coatings, resulting in a harder, scratch-resistant surface with optical transparency and a "glass-like" finish.

2. Key Features & Benefits

- Industrial-Grade Reliability:** Produced under strict ISO 9001:2015 quality standards, ensuring batch-to-batch consistency and raw material purity.
- Superior Clarity & Hardness:** The 2:1 formulation maximizes refractive index for clear optics while delivering a cured hardness superior to soft coating resins.
- Controlled Exotherm:** Features a balanced cure cycle that prevents overheating, yellowing, and cracking—common defects in faster-setting resins.
- Specialized Compatibility:** Fully compatible with industrial-grade "Sparkle" and glitter fillers, ensuring metallic additives do not bleed or fade within the chemical matrix.
- Self-Leveling & Degassing:** Optimized viscosity allows for passive bubble release and a mirror-flat finish without extensive manipulation.

3. Technical Specifications

Property	Value / Description
Mixing Ratio	2:1 (2 Parts Resin A : 1 Part Hardener B) by Weight or Volume

Property	Value / Description
Appearance (Mixed)	Crystal Clear / High Gloss
Pot Life (Working Time)	45 Minutes @ 25°C (Allows for complex pigment effects)
Touch Dry Time	12 Hours @ 25°C
Full Cure (Mechanical)	7 Days (For 100% strength and chemical resistance) ¹²
Max Pour Depth	Recommended up to 15-20mm per layer (Deep Pour safe relative to coatings)

4. Recommended Applications

- **High-Gloss Coatings:** Protective layers for paintings, photographs, and wooden tabletops¹⁴.
- **Casting & Molding:** Production of jewelry, 3D figurines, and orgone pyramids¹⁵.
- **"Ocean Art" & Geodes:** The 45-minute open time allows for thermal manipulation of pigments to create "cells" and "lacing" effects¹⁶.
- **Decorative Inlays:** Embedding glitters and heavy-duty additives without settling or chemical degradation¹⁷.

5. Application Guidelines

1. **Preparation:** Ensure workspace is dust-free and level.
 2. **Mixing:** Mix **2 parts Resin** to **1 part Hardener** by weight or volume. Stir thoroughly for 5 minutes, scraping sides and bottom.
 3. **Degassing:** Allow the mix to rest for 10 minutes to let air bubbles rise.
 4. **Pouring:** Apply to substrate. The 45-minute working window allows for detailed pouring and bubble removal.
 5. **Curing:** Cover to protect from dust. Touch dry in 12 hours; avoid heavy use until fully cured (3 days).
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6. Safety & Food Contact Compliance

- **Food Safety Status:** The product is **Food Safe for Incidental Contact Only** (e.g., serving dry crackers, fruit with peel) once fully cured for 3-7 days.
 - **Restrictions:** It is **not** recommended for direct contact with hot liquids (soups, coffee) or for use as a cutting surface.
 - **Handling:** Product is non-toxic when fully cured. During the liquid stage, use nitrile gloves and work in a ventilated area to avoid skin sensitization.
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7. Commercial Availability & Packaging

The product is available in a granular range of kit sizes to suit projects from jewelry testing to industrial flooring.

Kit Size	Target Application
250 Grams	Sampling, Jewelry, Repairs
750 Grams	Small Crafts, Coaster Sets
1.5 Kilograms	Hobbyist Art Projects, Trays
3.0 Kilograms	Professional Art, Small Tables
6.0 Kilograms	Furniture Coating, Bulk Production
15.0 Kilograms	Industrial / Contractor Use
120.0 Kilograms	Bulk / OEM Manufacturing

8. Contact & Support

- **Technical Support & TDS:** <https://lati.care/>
 - **Direct Store:** <https://store.lati.care/>
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Disclaimer: This data sheet is based on current technical assessments. Users are advised to perform small test batches to ensure suitability for their specific environmental conditions.