



Clear Resin

2 Component Transparent Casting Resin

Pack Size
15Kgs, 1.5Kgs & 750grams

TDS Technical Data Sheet



Product Overview

Clear Resin is an unfilled, low-viscosity, two-component combination of resin and hardener with a working time of more than 300 minutes. It is suitable for epoxy castings of medium thickness (up to approximately 50mm) depending on the surface, temperature, geometries, and casting volume.

Key Features

- Transparent, low-shrinkage casting with tack-free surfaces
- Very good flow properties (low-viscosity)
- Cold-hardening, demouldable at room temperature, applicable at slightly increased temperatures
- Highly fillable casting resin
- Pressure-resistant and impact-resistant (tough) molds/components with high strength and minimal shrinkage

Recommended Uses

- Industrial modeling / hobby modeling / boatbuilding
- Ideal for "River Table" making
- Creation of transparent, water-clear castings
- Foundry patterns, die plates, reproduction patterns, building of medium molds and castings
- Use as an injection system for repairs
- Encapsulation of decorative elements
- Levelling compound / injection resin for structural repairs

Application Guidelines

For better UV resistance, apply a suitable PU-Based clear coat (e.g., HP-PUR). During the hardening process, energy may be released as heat; therefore, cooling/heat exchange should be provided to prevent hot spots.

Technical Specifications

Coloring:	Colorless (resin), slightly yellowish (hardener)
Mixing Ratio:	100 parts resin : 50 parts hardener (by weight)
Mixed Viscosity:	Low-viscous
Working Time (Pot Life):	>60 minutes at 20°C
Demouldable After:	<48 hours at 20°C, <24 hours at 30°C

Full Cure:	7 days at 20°C
Working Temperature:	18-35°C

Raw Material Data

- Viscosity Resin (at 23°C): 600 - 800 mPa·s
- Viscosity Hardener (at 23°C): 10-20 mPa·s

Properties of Unreinforced Resin

- **Density:** 1.1 g/cm³ at 25°C
- **Hardness (Shore D):** 75
- **Color (Mixed):** Transparent / Colorless
- **Specifications After Curing:** Depends on geometry and total amount of casting

Health and Safety

- Prevent inhalation of fumes and contact with bare skin.
- Wear suitable protective gloves and safety goggles.
- Do not eat, drink, or smoke when using.
- In case of contact with eyes or skin, rinse thoroughly with water for 15 minutes.
- If inhaled, move the affected person to fresh air.
- If ingested, do not induce vomiting. Seek medical attention.
- Keep out of reach of children.
- Always mix components in recommended proportions.

Cleaning

Unhardened product residues can be removed from tools using acetone or Thinner XB. Allow tools to air out thoroughly after cleaning to prevent solvent retention. Hardened residues can only be removed mechanically, e.g., by sanding.

Packaging and Storage

Clear Resin is available in various quantities, with larger containers (barrels, IBCs) available upon request. Store in a cool, dry place. Ensure that container tops are free of material remains and do not exchange tops/lids. Store tightly closed containers in a cool and dry place. Shelf-life under optimal storage conditions is beyond 12 months.

Disposal

Do not allow product to enter drains, waterways, or soil. Uncured product residues are considered hazardous waste, while the cured system is considered construction site waste/household waste.

Pack Size

115Kgs, 1.5Kgs & 750grams



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.