



# TARA PAINTS & CHEMICALS

(An ISO 9001:2015 Certified Company)

A - 423 / 14, Mahagujarat Industrial Estate, Sarkhej - Bavla Road, Lane Behind Satyam Arcade,  
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## 0121 Casting Clear (2:1) 2pk (Low Viscosity)

PRODUCT CODE: 0121 Casting Clear (2:1) 2pk (Low Viscosity) (Part A + B)

### General Description:

Casting Clear is a, two components epoxy flow applied coating, UV stabilized epoxy system designed specifically for casting, potting, and embedding applications & room temperature curing. Water white clarity and viscosity allow for bubble free, crystal clear castings ideal for art and hobby applications. System consist of an epoxy resin and amine hardener. Specially formulated to give superior adhesion, abrasion resistant and excellent heavy-duty coating. It has high build cross linking density & Passes 3000 hrs salt spray on metal & can give up to 20mm dft. It will withstand temperatures between -35°C and +150°C and has very low thermal conductivity.

This versatile epoxy resin can be used in several ways. Depending on the application you can make it without fillers, or add other substances and materials to change its properties. Adding fabric or fibre for reinforcement, or powders for colouring or other special purposes, are all common occurrences. Epoxy Casting Resin will bond to most types of materials including wood, metal, epoxy sheet, fibreglass, most plastics, stone, concrete, glass and ceramics. It will also withstand many chemicals

Advantages:	
<ul style="list-style-type: none"> <li>● Solvent free – low odor, color less liquid</li> <li>● High chemical resistance.</li> <li>● Hard wearing.</li> <li>● Easy to clean – seamless.</li> <li>● Flexible and waterproof.</li> </ul>	<ul style="list-style-type: none"> <li>● Non-Conductive.</li> <li>● Excellent abrasion resistant.</li> <li>● Excellent abrasion resistant.</li> </ul>

Characteristics and Physical Properties		Chemical Resistance Data
Appearance	Color less Liquid	Hydrochloric Acid - Excellent
Color on ( G )	1 Max.	Sulphuric Acid,20% - Excellent.
Mixing Ratio	2 : 1	Phosphoric Acid, 20% - Excellent.
Solid Content	100%	Lactic Acid, 20% - Very Good.
Specific Gravity	Base 1.0 – 1.20	Sodium hydroxide,50% - Excellent.
	Hardner 1.0 – 1.01	Water, de – ionized - Unaffected
Pot Life @ 30°C.	45 – 75 minutes.	Sulfuric Acid, 14% - Unaffected
Initial Hardness @30°C	8 - 10 Hours.	Nitric Acid, 10% - Unaffected
Full Cure @30°C	7 Days	Acetic Acid, 30% - Unaffected

All the information given here are as per the results obtained in laboratory & are given in good faith to guide the user but without any warranty, the actual application results might vary depending on the conditions. We are not responsible for any loss, injury or damage resulting from the use of this information



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Viscosity @ 25°C	HV 8000 – 12000 cps LV 500 – 800 cps Hardner 300 – 500 cps	Caustic Soda, 20% - Petrol - Toluene - Xylene - Styrene - Hydraulic Fluid - Alcohol - Ketones -	Unaffected Unaffected Stiffened Unaffected Unaffected Unaffected Excellent. Good.
Compressive Strength	80 N/mm <sup>2</sup> ASTM C 579		
Flexural Strength	28 N/mm <sup>2</sup> ASTM C 580		
Water Absorption	0.2%		
Modulus of Elasticity	5500 N/mm <sup>2</sup> ASTM C 580		
<b>Handling Properties</b>			
(200g mix) @ 15°C		60-70 minutes - Peak Exotherm 110°C	
(200g mix) @ 25°C		30-40 minutes - Peak Exotherm 125°C	
(200g mix) @ 35°C		10-20 minutes - Peak Exotherm 150°C	
Demould Time		3 hours	

## Handling Precautions

This resin and hardener combination has been formulated with the objective of being as safe as possible, however, in common with most epoxy resins and hardeners, consistent skin contact with uncured materials may cause irritation of sensitive skins. For this reason, contact with the uncured materials should be avoided at all times.

Materials will become very hot during curing (up to 160°C). Do not touch in under the specified demoulding time or burns to the skin may occur. Our testing is based on a 200g sample size. Larger amounts of resin and hardener will get hotter during curing. Ensure that casting is done in a well ventilated area as some vapors will be released at these curing temperatures. Please refer to the Materials Safety Data Sheet for more information.

## Applications

- Making moulded epoxy parts and components.
- Surface coating. (Kitchen Top, Table tops, Floor coating, 3D Flooring)
- Filling gaps and voids around support posts.
- Filling gaps in electrical insulation and in electrical components.
- Covering gaps.
- In all kinds of model making applications.
- Making repairs to tools and components.
- General repairs to boats and watercraft.
- General repairs and gap filling for workshops and facilities.

## Surface Preparation:

To ensure that Epoxy Casting Resin bonded to the surface you want it to, it is very important to ensure the surface is clean and dry (Cleaner S Spray, Surface Cleaner or Plastic Cleaner may be ideal). If possible, smooth surfaces should be roughened as this will increase adhesive power.

Cast parts, which have been exposed to sea water for a long time, should be treated with special care as they might contain inorganic salts. It is possible that these salts reach the surface and absorb moisture, thus starting the formation of rust (rust bubbles under the protective coating). It is therefore suggested that such parts are heated or exposed to flame after sand blasting.

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If adhesion is not desired, a separating agent must be used. For smooth surfaces, Mould Release Agent (silicone free) or Silicone Spray may be suitable. For porous surfaces.

It is suggested that you begin the application of Casting Resin immediately after surface pre-treatment to avoid oxidation and instantaneous rust formation.

## **Maintenance:**

Remove all traces of oil, grease and other contaminants with suitable degreaser and detergent. Remove all rust and loose materials by power tool cleaning or by wire brushing. Application of wash primer to damaged or rusted surface is recommended prior to the application of EPOXY TOP COAT PAINT. Surface contaminated with oil or grease should be flame cleaned or by using a degreaser and wash with detergent.

## **Important Note:**

- Avoid inhaling vapor. Do not use below 5°C
- While applying the atmospheric moisture should be less than 75%.
- While applying in food base industry the work should only be started after 7days of application.

## **Storage:**

At least 18 months in unopened cans. The product should be stored in cool and dry area. Keep container tightly closed.

## **Cleaning of Tools:**

All tools should be cleaned with Wash Thinner or TARALAC Epoxy Thinner as soon as possible.

## **Physiological Hazards:**

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately, using warm water and soap. Avoid inhaling vapor.