

# COLTECH C 2600

TECHNICAL DATA SHEET  
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## Transparent Rigid Epoxy Casting Resin, Ultra Low Viscosity

### Product description

COLTECH C2600 is a transparent, two component, ultra-low viscosity, solvent-free, rigid, completely UV stable Epoxy resin.

COLTECH C2600 provides excellent working viscosity, durability, chemical & temperature resistance properties with minimum shrinkage.

Cures by reaction (cross linking) of the two components

### Uses

The COLTECH C2600 is a specialized, ultra low viscosity, transparent, rigid Epoxy casting resin for:

- production of small and large transparent objects.
- filling and casting applications

### Advantages

- Solvent free
- Ultra-Low viscosity, no vacuum needed
- Transparent even in high volume castings
- Completely Non yellowing, UV stable
- Cold curing
- Long working time
- Minimum shrinkage
- High impact strength
- Chemical resistant
- Over 10 years of positive feedback worldwide.

### Consumption

~ 1,1kg / liter

### Colors

The COLTECH C2600 is supplied in transparent.

### Technical Data \*

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane Resin + Hardener. Solvent free.	
Mixing Ratio	A : B = 100 : 25 by weight	
Hardness (Shore D Scale)	70	ASTM D 2240
Shrinkage	<0.5%	
Weathering	Non-yellowing (2000h aging exposure)	QUV accelerated aging
Solids Content	100 %	CALCULATED
Temperature strength	60 °C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-10 °C(Fully cured)	IN HOUSE LAB
Pot-Life	60 minutes	Conditions:20°C,50%RH
Tack Free Time	12-18 hours	
Demolding Time	24-36 hours	
Final Curing time	7 days	

### Chemical Properties

Water	+	Hydrochloric acid 4%	+
Potassium hydroxide 4%	+	Alcohol	±
Salt water 20%	+	Hydrocarbon Fuels	±
Domestic Detergents	+	Brake fluid	-
{+ stable, - unstable, ± stable for a short period.}			

## Application

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### Mold Preparation

Before casting, check that parts or molds are free of any trace of moisture (Maximum surface moisture content should not exceed 4%). Before the application of the COLTECH C 2600, the prepared object has to be coated with a suitable liquid-applied mold release agent as the COLTECH E 499 to avoid bonding with the mold.

Stir COLTECH C 2600 Component A well before using. Stir COLTECH C 2600 Component B well before using.

COLTECH C 2600 Component A and Component B should be mixed by low speed mechanical stirrer, according to the indicated mixing ratio in this technical data sheet, for about 1-3 min if applied manually. When mixing, care must be taken to avoid the introduction of excessive amounts of air. After mixing of the Components A+B, transfer the mixture in a second clean container and mix again for 30 sec. Following to that, although it is not absolutely necessary, we recommend to use a Vacuum Chamber (@-1bar for 60-90 sec) to remove any air bubbles from the mixture prior to use.

**ATTENTION:** The mixing of the components has to be performed very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous and streak free. Please ensure consumption within the Pot Life. Use at a temperature higher than 15°C. Containers of Part A (Resin) and Part B (Hardener) should be kept hermetically sealed at all times when not in use to prevent the ingress of moisture. Never use if the viscosity of the adhesive/resin is starting to rise as this is a sign that the end of the Pot Life is reached and the resin should not be used any more.

**WARNING:** Incomplete mixing or use of the wrong mix ratio will result in erratic or partial curing. Containers of Part A (Resin) and Part B (Hardener) should be kept sealed at all times when not in use to prevent the ingress of moisture. If moisture ingress, the resin mixture will create foam while curing. Containers of Part A (Resin) and Part B (Hardener) should be kept stored at a Temperature between 10-30°C.

Pour the mixed COLTECH C 2600 resin slowly into the mold from one and if possible the lowest side, so that the resin pushes air bubbles when flowing.

**RECOMMENDATION:** Before use or change in surface to be adhered make an adhesion test to make sure that adhesion is optional.

**RECOMMENDATION:** Use Post curing in a heating apparatus (@50-60°C for 2-24h) to accelerate curing and lower final curing time.

### Packaging

Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

### Safety measures

Contains Isocyanates. Please study the Material Safety Data Sheet. **PROFESSIONAL USE ONLY**

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Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.