

Epoxy Resin for Transparent Coating and Designs

Technical Documentation in English

DEFINITION

100% solid, two-component epoxy casting system. Designed and developed for applications with low color and low viscosity, for casting, art and hobby applications, and bubble-free, crystal clear casting. Formulated for a long gel time with low exothermic heat buildup.

DESCRIPTION

PUREPOXY - 130 : 50% relative humidity @23 °C is an approximate value and this will be affected by changing environmental conditions, and especially by changes in temperature and relative humidity. The data specified were calculated for flat surfaces. A porous or defective surface will require more material to coat over an area with the same dimensions.

AREAS OF USE

- Tables and wood art
- Handcrafted jewelry
- Resin casting
- Countertops and bar tables
- As molding resin
- Resin for use in arts and crafts
- In high structure coating
- In bulk casting
- On floors and terrazzo applications

ADVANTAGES

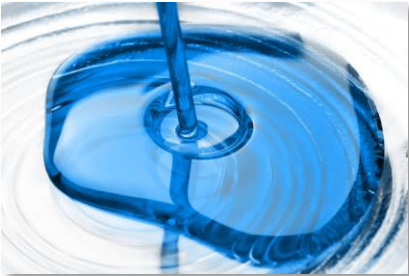
- 100% solid, low VOC content and low odor
- Crystal clear and very bright appearance
- High mechanical strength
- Excellent chemical strength
- Bacteria and moisture-resistant, dense surface
- Excellent air extraction properties
- Self-propagating
- Suitable for coloring
- Highly malleable
- Eco-friendly

APPLICATION

Only mix the amount you need in one go. Limit the maximum castable amount with 2 liters (2 kg) of component A and 1 liter (1 kg) of component B. The resin and the hardener must be left in the original containers. Mix the full amounts of both the resin and the hardener in separate mixing containers. Do not add more hardener than the amount of resin you need, this may cause the deterioration of the finished coating. Incorrect measurements will lead to soft or sticky spots being left on the Epoxy surface.

Leave or heat up the **PUREPOXY-130** resin and the hardener at the ambient temperature of 24 - 27°C. This will improve the mixture's fluidity, release the air that is trapped inside and prevent the formation of bubbles. Mix 2 units of resin with 1 unit of hardener in a dry, clean container. Using a paint stir stick or a mixer, stir for 2 to 3 minutes. After stirring, transfer the mixture into a similar empty mixing container and stir for an additional 1 to 2 minutes. Pour the materials into the mold. Wait for 15 - 20 minutes, then go over the surface with a lit propane torch or a heat-blowing dryer at an angle of 45°.

Go over the surface with the tip of the heater until all of the bubbles disappear. The carbon dioxide at the end of the flame and the dryer fan releases and bursts the bubbles. This will help you achieve a glass-like finish. If hidden bubbles appear, a similar method might be required to burn them out for 30 minutes. After the product hardens, the bubbles can be sanded down or you can go over the surface with the grinding method.



TECHNICAL SPECIFICATIONS

	Unit	Value
Product	-	Pure epoxy resin
Viscosity	25°C / mPas	1500
Mixing Ratio	By Volume	2/1 Resin-Hardener
Pot Life	25°C	45 min
Ratio of Solid Matter	-	100%
Color	-	Transparent
Touch Dry Time	Hours	12
Hard Dry Time	Hours	24
Full Cure	Hours	3 days
Elongation	%	6,7
VOC	-	10 g / L
Hardness	Shore A	85-90
Application Methods	-	Casting, Trowel, Brush
Mixture Life	25°C / min	45
Bending Strength	25°C /Mpa	105
Tensile Strength	25°C /Mpa	95
Compressive Strength	25°C /Mpa	80
Recommended Amount for Use	Volume	3 kg

PACKAGING

Component A resin: 10 kg / 4 kg / 2 kg

Component B catalyst: 5 kg / 2 kg / 1 kg

Must be stored in its packaging, in a dry environment, at 5 °C / 30 °C.

Opened products must be consumed as soon as possible.

Shelf life: 1 year.

HEALTH AND SAFETY

Please ask for and read the Safety Data Sheet (MSDS) for detailed usage instructions prior to applications and purchasing.

Always wear eye protection, gloves, suitable clothing and masks during operation.

DISPOSAL

Slightly-cured product residues can be disposed of as regular household waste. Uncured product components must be disposed of according to the local regulations. Empty drums must be cleansed of any liquids by drilling a hole near the cover and turning the drum upside down until no liquid is left.