

Product Information

Casting

Resin EP 505

FEATURES

- Colorless
- Contains UV retarder
- gel time from 1 to 20 hours

COMPOSITION

- Epoxy resin EP 505
- 3 Amine hardeners available



EP 505 is a transparent, colorless, low yellowing epoxy casting resin, available in combination with various hardeners that allow geltime from 1 to 20 hours, and casting thicknesses from 2 to 40 mm.

APPLICATIONS

- Designed to create wood/resin tops, embedding, design items.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local sales representative prior to writing specifications on this product.

Property	Unit	Value
Colour (Resin EP 505)	visual	Colorless
Density at 23°C (Resin EP 505)	g/cm ³	1.12
Viscosity at 23°C (Resin EP 505)	mPa.s	1235
Hardener H 505		
Colour	visual	Colorless
Density at 23°C	g/cm ³	1.03
Viscosity at 23°C	mPa.s	430
Mixing ratio	pbw	100 : 60
Gel-time at 23°C (150g)	hours	1
Thicknesses	mm	from 2 to 10
Hardener H 509		
Colour	visual	Colorless
Density at 23°C	g/cm ³	1.01
Viscosity at 23°C	mPa.s	300
Mixing ratio	pbw	100 : 50
Gel-time at 23°C (150g)	hours	3
Thicknesses	mm	from 10 to 20
Hardener H 510		
Colour	visual	Colorless
Density at 23°C	g/cm ³	0.97
Viscosity at 23°C	mPa.s	90
Mixing ratio	pbw	100 : 40
Gel-time at 23°C (150g)	hours	20
Thicknesses	mm	from 20 to 40

SETTINGS

We recommend to re-homogenize the products in the container before use. Weight the two components and stir thoroughly until mixing is complete. Epoxy resins can crystallize at low temperature. To bring them back to their original condition heating at 40°C-50°C

avoiding local overheating, then cool to room temperature. The substrate must be dry, free of dust. In the case of woods with high humidity, properly insulate them with sealers or a suitable product.

MIXING

Mix resin and hardener in the proportions indicate until a homogeneous compound is obtained. Both components must be mixed intimately paying attention to the material on the edges of the container and not to incorporate too much air. Use a low speed mixer. If possible degas the mixture under vacuum to eliminate the air incorporated during mixing. If not, use a jet of hot air to eliminate surface foam and air bubbles. It is possible to pour in several layers, casting the next layer when the previous one is solidified, and the reaction temperature has dropped below 40°C. The choice of the system depends on the mass, thickness and width of casting. Excessive heat development leads to dimensional shrinkages and drops in particular on the corners.

POTLIFE AND GELTIME

When the two components are thoroughly mixed in the right mixing ratio the reaction starts. The pot life, or usable time of the mixture, is normally the time required for an increase equal to twice the initial viscosity. Both Pot-life and Gel-time are depending on the mass and temperature: greater the mass, faster the reaction, greater the thickness, faster the reaction. Higher the temperature, faster the reaction.

CURING

The system cures at room temperature. Do not apply at temperatures below 15°C.

HANDLING PRECAUTIONS

The information for a correct and safe handling of the products are contained in the safety data sheet. Consult the safety data sheets before use for complete information on the risks for health and

environment and for suitable protective devices to be adopted. Share the safety data sheets with all the staff involved in the use of the products.

PACKAGING

EP505 is supplied in 200, 25, 10, 5, 1kg containers, H505 in 200, 15, 6, 3, 0.6kg containers, H509 in 20kg containers, H510 in 24, 3,5kg containers.

USABLE LIFE - STORAGE

Resin and hardeners must be stored in the original unopened containers at a temperature between +10°C and +35°C. Be sure to close the containers after use. Resin and hardeners, if stored under certain conditions, have a shelf life of 24 months from the date of manufacture.

LIMITATIONS

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

LIMITED WARRANTY

The information contained in this document is offered in good faith based on Chemix research and is believed to be accurate. However, as the conditions and methods of use of our products are beyond our control, this information should not be used as a substitute for the tests that customers must first perform to ensure that Chemix products are fully satisfactory for their specific applications. The warranty is only applicable to the values indicated in the Product Sales Specifications. The sole and exclusive compensation for products with values that are out of specification is limited to the replacement of the product or the refund of the purchase price.

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