



Product Information

Casting Pro Epoxy

Pours up to 1"

Description:

Casting Pro Epoxy is a premium, two-component, 100% solids, high-build epoxy coating used for water-clear epoxy pours from 1/4" – 1" deep per layer.

Uses:

Crystal-Clear casting of various objects, decorative jewelry, thick-poured surfaces, burl wood tables, limitless possibilities.

Coverage:

Coverage for pour coat:

1/4" thick – 1.5 gallon kit – 10 sq ft

1/2" thick - 1.5 gallon kit - 5 sq ft

1" thick – 1.5 gallon kit – 2.5 sq ft

Note: Pouring a thickness of > 1 inch may cause excessive bubbles, yellowing, and distortions in surface. Use multiples coats to achieve desired thickness.

Colors:

Universal Paint colorants can be added if they are water-based and not oil based. You may also add DIYEPOXY Metallic Pigments to achieve desired results.

Packaging:

1.5 Gallon Kits - 1 gal of resin / 1/2 gal of hardener

15 Gallon Kit - 2 – 5 gal of Resin / 1 – 5 gal of Hardener

Surface Preparation:

For best results, the surface to be covered must be dry and free of dust, wax, grease, or oil. Surfaces should be sealed. For wood, apply 2-3 coats of a lacquer sanding sealer, sanding lightly between coats. For other surfaces, like paper, use our SEAL COAT. The item to be coated should be about 2 inches above the work area so that the extra mixture will drip off the item. It is a good idea to put a newspaper or a drop cloth under the item to catch the drips. Apply tape paste wax now to prepare the back surface of the project for easy drip removal.

Measuring:

Mix only the amount of Casting Pro Epoxy that you need at one time. Unused resin and hardener should be left in original containers and used within 60 days to avoid unwanted yellowing inside bottles.

Measure 2 parts Resin A to 1 part Hardener B by volume. Inaccurate measuring will cause epoxy

surface to remain soft or sticky "spots" on the epoxy surface.

Tools:

Mixing container- Should have smooth flat bottom and be clean and dust free.

Stick- Must have flat, straight edge to ensure thorough mixing.

Brush- Sometimes a small brush is needed for coating edges of crevices.

Surgical Gloves (powder-free) or Notched Spreader or Squeegee – May be needed for certain product applications

Propane Torch – For bubble release

Application:

After thoroughly mixing, slowly pour the Casting Pro Epoxy over the surface you wish to coat approximately 1/4" thick at a time, popping the bubbles as you go by waving a propane torch 4"-6" above the surface. Once bubbles are eliminated, repeat pouring process 1/4" at a time until a maximum of 1" of thickness is reached. Allow to dry prior to subsequent applications.

For stubborn or deep-set bubbles, heat the tip of a narrow screwdriver and pop the deep bubbles with the hot tip of the screwdriver.

Torch as needed up to 40 minutes after initial pour.

Note: If needed for a project > 1" thick, multiple pours may be needed. Allow product to dry completely in 1" layers before repeating the layering process.

Mixed resin and hardener, if left in mixing container beyond 10 minutes, may begin to heat up, shortening working time. Avoid breathing vapors. Polymer should be used only by adults or under adult supervision.

Durability for Various Applications:

Casting Pro has a "softer" overall finish and is susceptible to scratching and denting if left as the stand-alone final coat. When using over a wear-surface such as a table or bar top, it is necessary to top-coat using one of our table-top epoxies (i.e. Crystal Illusion Countertop or Artisan Art).

Drying Time:

To Touch: 24 hours



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Light Use: 72 hours

Cure Time: 7-14 days until fully cured (depending on thickness of application)

Limitations:

Casting Pro Epoxy should be stored in a dry place between 75°-80°F and out of the reach of children. Resin and hardener should not be left in an open container. Casting Pro Epoxy should be used in a room where the humidity is under 60% and temperature is between 60°-85°F. This product should be used within one year of purchase. Use within 2 months after opening. For interior use only.

Clean Up:

Use Acetone to clean up Casting Pro Epoxy while it is in its liquid state. After Casting Pro Epoxy has been cured, it may be removed by mechanical means. It is advisable to clean immediately after use.

Warranty

DIYEPOXY guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. DIYEPOXY makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact DIYEPOXY.

Technical Data:

<u>Exothermic data</u>	
Brookfield viscosity, cps, 25 °C	900-1,100
Gel Time, minutes (200-g mass @ 25°C)	65 min
Peak Exothermic temperature, °C	130
Pot Life (200-g mass @ 25°C)	35 min
<u>Coating Properties, 20 mil film</u>	
Drying time, hr., Set to touch	12-18
Thru-dry	18-24
<u>Properties of Cured 1/8 inch castings¹</u>	
Izod impact strength, J/m	40-50
Shore D hardness, 0-10 sec	60-70
Tensile Strength, ASTM D 638	56-60 mPa
Ultimate elongation, %	6.5-7%
Flexural strength, ASTM D 790	83-88 mPa
Flexural modulus	2300-2600 mPa
VOC	0 g/l
¹ Cured 7 days, ~25°C	



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