

TECHNICAL DATASHEET

Clear Coating Epoxy Resin

Clear Coating Epoxy Resin is a water clear, low viscosity resin system for coating, doming and resin art applications. It is a solvent free epoxy specifically formulated as a clear, ultra-high gloss coating system that will self-level and cure at room temperature (15°C to 32°C). The system has excellent air-release and has been optimised for extended UV stability.

Mix Ratio

90 parts hardener to 100 parts resin by weight
 1 part hardener to 1 part resin by volume

Note: Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio. Please note that the room temperature will affect cure characteristics.

Uncured Properties	Clear Coating Epoxy Resin: Part A	Clear Coating Fast Hardener: Part B
Physical State	Colourless Liquid	Colourless Liquid
Viscosity mPas @ 25°C	2700	1300
Specific Gravity g/ml @ 25°C	1.16	1.06

Cure Characteristics	Clear Coating Epoxy Resin/Clear Coating Fast Hardener
Pot Life - 100g @ 25°C (in air)	38 minutes
Mix Viscosity mPas @ 25°C	1795
Thin Film Tack Free Time @ 25°C	7 hours
Thin Film Open Time @ 25°C	40 – 60 minutes
Cured to Solid State @ 25°C	24 hours
Glass transition temperature (Tg) 24h@ambient +16h@40°C	41°C
Shore 'D' Hardness 24h@ambient +16h@40°C	76

Application

The surfaces to be coated should be dry and free from contaminants. Use two clean plastic containers of equal volume to measure the correct proportion of resin and hardener. Pour the contents of both into a larger container and stir the two ingredients thoroughly, for at least 3 minutes –longer in cooler

temperatures. Tip the mixed resin and hardener into a second large container and thoroughly mix again for a further 1-2 minutes. Take care to stir the material slowly so air entrapment is kept to a minimum.

Clear Coating Epoxy Resin may be directly poured or brushed onto a surface and will self level to produce a very high gloss. For best results apply at temperatures between 15°C and 35°C, and at below 85 percent humidity.

Air bubble release is greatly enhanced by the use of a small heat gun or mini gas torch. Hold the torch approximately 100 to 150mm off the surface and **keep moving the flame across the surface**. Heat can be applied as many times as needed in the 30 minute working time. Inspect and remove any lint with tweezers. Clear Coating Epoxy Resin should be cured in a warm 25°C, dust free area.

Clear Coating Epoxy Resin is not to be thinned under any circumstances, as it has been formulated to optimal viscosity for this specific application.

Coverage

0.6m² per mixed litre of Clear Coating Epoxy Resin. Mix enough to cover the area, allowing for the flow of resin and drips over the edges.

Clean Up

Clean the equipment with Acetone or Isopropyl Alcohol, which can be purchased from Adelaide Moulding & Candle Supplies. Follow safety warnings on solvents, and provide adequate ventilation. Clean epoxy hardener residue with warm soapy water.

DO NOT dispose of resin or hardener in a liquid state. Waste resin and hardener can be mixed and cured (in small quantities) to a non-hazardous inert solid.

Storage

Clear Coating Epoxy Resin will keep for 2 years if kept in original containers at room temperature (15°C to 32°C) out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption and add F 720 Dry-Air Blanket, available from Adelaide Moulding & Candle Supplies.

Health and Safety

Please refer to the Safety Data Sheets for Clear Coating Epoxy Resin and Clear Coating Fast Hardener.

Both products have moderate sensitising potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.
- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with water, avoiding the use of solvents except in the case of massive contamination.
- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.
- Do not eat, drink or smoke when using this product.

If swallowed:

Resins - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.

Hardeners - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.

All technical data, recommendations and service are accurate to the best of our knowledge. Adelaide Moulding and Candle Supplies assumes no responsibility for the results obtained or damage incurred from use by the buyer in whole or in part since method of application and its use is beyond our control.