

DiamondCote Epoxy Resin

DiamondCote is a High Viscosity Epoxy Resin, designed for coating and creative applications.

This product has been designed to add a diamond-like finish to your resin art, acrylic pours, mosaics, photographs, prints, timber surfaces, sculptures, and more.

Can be applied by pouring, brushing on, or with a roller to substrates such as Art Boards, MDF, acrylic sheet, concrete, metal, wood and more.

DiamondCote can be used as a top coat on your artistic projects, and can also be tinted with Just Resin Pigment Pastes, Powders, Glitters and Inks.

Characteristics

- Easy to measure 1:1 by volume
- Self-leveling
- Excellent air release properties
- High clarity
- UV Stable
- Low in VOC's
- High Viscosity
- High gloss
- Heat Resistant upto 50c
- Non-Dangerous goods for transport
- Great Hardness once cured

Typical Applications

- Coating
- Large artwork pours
- Doming photos, magnets, polymer clay
- Small jewellery castings

Physical Properties	Part A Resin	Part B Hardener
Viscosity cPs @ 25°C	11500 - 14000	350 - 500
Colour	Clear to Light Yellow	Clear to Light Yellow
Density Part A @ kg/m ³	1.16 – 1.18	0.97 – 1.00
Shelf Life	>12 months	>12 months [^]

[^]Product can start to change colour after 8 months.

Product information

Mixing Ratio – by volume	100 parts resin : 100 parts hardener
Ideal pouring temperature	22 - 25 °C
Potlife / Working time	<40 - 70 mins*
Mixed Viscosity @ 25°C	6000 - 7250
Thin Film Set @ 25°C	3 hrs
Thin Film Set @ 10°C	10 hrs
Cure Time / Touch dry	24 hrs
Full Cure	7 days
Flash Point	>110 °C
Cured Hardness, Shore D @ 24hrs	70 - 75
Cured Hardness, Shore D @ 7 days	78 - 82
Peak Exotherm, 200g @ 25°C	140 °C
Gloss Level @ 60°	100 GU

*Note – Subject to storage, weather, humidity, mass and other unforeseen factors.

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Application

Use a clean calibrated mixing vessel, pour the contents into the container, and mix thoroughly for at least 3-4 minutes, or until both parts are completely combined. No stringy bits are to be seen. Scrape sides and bottom of vessel throughout mixing process. Mix slowly to reduce bubbles from forming. Material can be split into smaller mixing vessels to incorporate pigments. Material can be poured in chosen design. Air bubble release is enhanced with the use of a hair dryer, heat gun or small butane torch. Hold the heat source approximately 10-15cm away from the project, and keep moving the device in a sweeping motion across the project. Allow to cool, and gently sweep over the piece again if required within the working time. Remove any dust particles with tweezers, cover and let cure in ideal ambient temperatures between 22 and 25°C.

Pigments

The use of any Just Resin pigment can be used in conjunction with this product.

- Pigment pastes <10%
- Pigment powders <20%
- Inks <10%
- Glitters <10%

Cautions

- Cure time cannot be altered by adjusting the resin to hardener ratio.
- Stir the material slowly to reduce air bubbles being created.
- Inadequate mixing will lead to curing issues.
- Leaving combined epoxy in a mixing vessel for a prolonged period can accelerate curing and cause an exothermic reaction.
- When the relative humidity exceeds 80%, the surface of the cured product can absorb moisture and the finish may not appear to be glass-like. We suggest a fully controlled environment if coating in these conditions.

Storage

Can be kept for greater than 12 months, if kept in original containers, with lids tightly closed.

Product to be stored in a dry dark room/cupboard at temperatures between 15 and 30°C, and out of direct sunlight.

If the materials have been stored at temperatures below 15°C for a prolonged period, crystallisation may occur, ensure to condition both parts of material at 25-30°C to reduce viscosity and assist in air release.

Safety

Please refer to the Materials Safety Data Sheet before use, and for more information.

DISCLAIMER : All technical data, recommendations and service are accurate to the best of our knowledge. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Just Resin assumes no responsibility for the results obtained or damage incurred from use by the buyer in whole or in part, since the method of application and its use is beyond our control. We reserve the right to alter product constants within the scope of technical progress or new developments. It is the responsibility of the user to ensure a proper assessment has been carried out. No representation or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made here under with Respect to the product to which this information refers.