Technical Data Sheet

justresin ART & SUPPLIES

ArtCote Epoxy Resin

ArtCote is a high-viscosity epoxy resin designed for coating and creative applications.

With an easy-to-use 1:1 mixing ratio and workable viscosity, ArtCote is suitable for beginners through to experienced resin artists looking to create a range of effects while achieving a smooth, high-gloss finish.

ArtCote can be applied by pouring, brushing or rolling onto a variety of substrates, including art boards, MDF, acrylic sheet, concrete, metal, wood and more.

It can be used as a clear top coat or tinted with Just Resin Pigment Pastes, Pigment Powders, Glitters and Inks to create a wide range of decorative finishes.

Characteristics

- Easy to measure 1:1 by volume
- Self-leveling
- Excellent air release properties
- High clarity
- HALS UV Stability
- 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

Physical Properties	Part A Resin	Part B Hardener
Viscosity cPs @ 25ºC	11500 - 14000	2000 - 3000
Colour	Clear to Light Yellow	Clear to Light Yellow
Density Part A @ kg/m³	1.16 – 1.18	0.95 – 0.98
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	24 - 27 ºC
Potlife / Working time	Up to 60 mins*
Mixed Viscosity @ 25ºC	6750 - 8500
Thin Film Set @ 25ºC	8 hrs
Thin Film Set @ 10ºC	18 hrs
Cure Time / Touch dry	30 hrs
Full Cure	7 – 10 days
Flash Point	>110 ºC
Cured Hardness, Shore D @ 24hrs	70 - 75
Cured Hardness, Shore D @ 7 days	78 - 81
Peak Exotherm, 200g @ 25ºC	100 ºC
Gloss Level @ 60º	100 GU

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

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Application
Use a clean calibrated mixing vessel, pour the contents into the container, and mix thoroughly for at least 3-4minutes, 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 25ºC.

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 12months, if kept in original containers, with lids tightly closed.
Product to be stored in a dry dark room/cupboard at temperatures between 15 and 30ºC, and out of direct sunlight.
If the materials have been stored at temperatures below 15ºC for a prolonged period, crystallisation may occur, ensure to condition both parts of material at 25-30ºC to reduce viscosity and assist in air release.

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

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