Technical Data Sheet

justresin ART & SUPPLIES

RiverPour Epoxy Resin

RiverPour is a Low Viscosity Epoxy Resin system, designed for casting and encapsulation for River Tables and other creative applications. This product has been designed for medium (3kg) to large (40kg+) castings, with a very low exothermic reaction, excellent HALS UV stability, and Just Resin's high optical clarity technology. RiverPour has an easy mixing ratio of 2:1 by weight, making it ideal for large single pours. A single clear pour of 50mm deep with a total weight of 4kg can be achieved at 25ºC without any fans or other temperature lowering assistance. RiverPour can be used in warmer climates due to its very long pot life. RiverPour can be tinted with a variety of pigment powders, inks, and paste, and is best tinted with Just Resin Pigment Pastes, Mica Powders, Chameleons, Glitters, and Inks.

Characteristics

- Easy to measure 2:1 by weight
- Self-leveling
- Excellent air release properties
- Very high clarity
- UV Stable
- Low in VOC's
- Low Viscosity
- High gloss
- Very Low Exothermic Reaction
- Very long Pot Life
- Great Hardness once cured
- Non Dangerous goods for transport

Typical Applications

- River Table Castings
- Medium 3kg to Large 40kg+ Castings
- Wood/Resin Lathe work
- High Climate Castings

Physical Properties	Part A Resin	Part B Hardener
Viscosity cPs @ 25ºC	500-1000	100-300
Colour	Clear to Light Yellow	Clear to Light Yellow
Density Part A @ kg/m³	1.14 – 1.16	0.95 – 1.05
Shelf Life	>12 months	>12 months^

^Product can start to change colour after 8 months.

Product information

Mixing Ratio – by weight	100 parts resin : 50 parts hardener
Ideal pouring temperature	15 - 25 ºC
Potlife / Working time	>4 hours *
Mixed Viscosity @ 25ºC	300 - 800
4kg 50mm Set @ 25ºC	20 hrs
2kg 150mm Set @ 25ºC	26 hrs
Cure Time / Touch dry	>36 hrs
Full Cure	7-10 days
Flash Point	>110 ºC
Cured Hardness @ 20c, Shore D @ 24hrs	70 - 75
Cured Hardness @ 20c, Shore D @ 7 days	78 - 82
Peak Exotherm, 200g @ 25ºC	80 ºC
Gloss Level @ 60º	>100 GU

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

Technical Data Sheet

RiverPour Epoxy Resin

Application
Use a clean bucket or mixing vessel, pour the contents of Part B required into the container first, and then add the contents of Part A. Measuring is to be completed at a ratio of (A) 2:1 (B) by weight, mix thoroughly for at least 3-4minutes using a Just Resin drill mixer attachment, or until both parts are completely combined - please note mixing by hand may take 10mins or more dependent on overall volume. No haze or stringy bits are to be seen, scraping sides and bottom of vessel throughout the mixing process. Mix slowly to reduce bubbles from forming. Material can be split into smaller mixing vessels to incorporate pigments and left to sit to release bubbles before pouring if you wish, due to its very long open time. 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 of up to 4 hours – making note that working time may be altered due to environment and ambient temperature. Remove any dust particles with tweezers, let cure in ideal ambient temperatures between 15ºC 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 & measuring can lead to curing issues.
- 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 casting in these conditions.
- Lower temperatures during the curing process will prolong the curing time.
- Minimum size of castings to be 500grams
- Small pours (500g to 3kgs) may require assistance in air release (vacuum chamber / pressure pot) and may experience prolonged final cure hardness (>14days).
- Air release properties can be altered at low ambient curing temperatures.
- Vacuum chamber may be necessary depending on total volume, pour depth and temperature.
- For small castings <3 kilograms, RiverPour may need to be conditioned at 25-30c if casting in cool ambient temperatures.

Storage
Product to be stored in a dry dark room/cupboard at temperatures between 15 and 30ºC, and out of direct sunlight. Keep containers tightly closed when not in use. Can be kept for greater than 12months, if kept in original containers, with lids tightly closed. 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.

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.