Barnes **Technical Data Sheet**

Product Name

MEGAPOUR® EPOXY DEEP CASTING SYSTEM

Product Description

Megapour® is an epoxy resin system specifically designed for deep pouring and large castings. It allows for large pours with low exotherrm (heat generation) and can be poured in thickness of 50mm-100mm per pour, allowing you to experience resin in a whole new way. Subsequent layers can be poured with excellent cohesion.

Product Highlights

- Contains anti-yellowing additives
- Displays excellent adhesion to other substrates and cohesion on multiple layers
- Good fluidity and de-airing properties
- FDA Approved
- Non-Dangerous Goods for transport
- Easily tinted with a vast range of compatible colourants
- Low exotherm resulting in low shrinkage

Typical Applications

- Casting of river tables
- Wood/Resin art for decorative ware.
- Electrical assembly potting
- Large clear castings

Physical Properties

Part A

Viscosity	cPs @ 25ºC	1000-2000
Colour		Colourless Transparent

Part B

Viscosity	cPs @ 25ºC	100
Colour		Colourless Transparent

Handling Properties

Mix Ratio	Part A : B (by weight)	100 : 50
Potlife	1650g mass @ 23ºC	2+hrs
Cure Time	@23ºC	24+ hours
Full Cure		7-14 days
Cured Hardness	7-14 days @23C	80-85D
Heat Distortion Temp (HDT)	When properly cured	100-120°C

Specific Sample for this TDS

To create this TDS, we cast a test piece with approximate specifications of:

- Part A 1100g : Part B 550g
- Cast and cured at 23ºC
- Demould at 19hr
- Cast block size 175 x 175 x 45mm
- Single pour

We recommend that testing is always performed specific to your needs and methods of use.

Processing Information

(Optimal casting conditions are 10-20ºC and 50%R.H)

- Casting in conditions 25ºC and higher
  - Maximum depths of 50mm per layer can be poured
  - A maximum total mix of 40kg can be poured
- Casting in conditions 20ºC and lower
  - Casting depths of 50mm-100mm per layer can be poured
  - A maximum total mix of 60kg can be poured
- If the cast item/part is to be used for Food Contact after curing, the temperature of the food should not exceed 50ºC
- When the relative humidity exceeds 80%, the surface of the cured product can absorb moisture and form a white mist. We suggest a fully controlled environment if casting in these conditions.
- If timber and similar objects are being embedded, it is suggested that they should be pre-sealed.
- If the materials have been stored at temperatures below 15ºC for a prolonged period, ensure to condition the Part A material at 25-30ºC to reduce viscosity and assist in air release. The material can be cast at lower temperatures, but the user should be aware of viscosity changes at lower temperatures.
- This resin and hardener combination have been formulated with the objective of being as safe as possible, however, in common with most epoxy resins and hardeners, skin contact with uncured materials may cause irritation of sensitive skins. For this reason, contact with the uncured materials must be avoided at all times.
- Ensure that mixing & casting is performed in a well-ventilated area as some vapors may be released during cure.
- Please refer to the Materials Safety Data Sheet for more information.

Storage

Store the components in a dry place at 18 - 25 ºC, in tightly sealed original containers. It is suggested to purge moisture from the Part A containers with F720 Dry Air Spray prior to resealing the lid after use.

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Revision Number

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Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.