illawarra coatings
Technical Data Sheet

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Art Res® Deep Pour

A deep pour epoxy designed for river table, casting and encapsulation.

DESCRIPTION

Art Res Deep Pour Is a two-part epoxy casting system designed for deep casting applications. It features exceptional UV resistance and anti-yellowing capabilities. It provides low exotherm and inherent air release/defoaming capabilities.

RECOMMENDED USE CASES

- River castings.
- Mass castings.
- Embedding and encapsulation.

TYPICAL PROPERTIES

Property	Result
Appearance	Homogeneous liquid
Colour	Clear
Finish	Gloss
Specific Gravity (Resin)	Approximately 1.1 kg/l
Specific Gravity (Hardener)	Approximately 0.98 kg/l
Viscosity (Mixed)	< 600 cp
Mix Ratio	2:1 by volume
Recommended pour depth	20 – 60 mm
Working time	Approximately 2.5 hrs @ 25°C
Demold time	48-72hrs at 25°C
Full Cure	7 days at 25°C
Shore D hardness	80
Ideal working temperature	25 +/- 3°C

PACKAGING

Art Res® Deep Pour is available in 1.5, 3, 6, 15 and 30 litre kits as standard. Other sizes available on request.

APPLICATION DIRECTIONS

Environmental Conditions

Controlling the environmental conditions are a critical part of working with and large-volume casting epoxy, we suggest ensuring ambient air temperature/humidity of your working area in the range of 20C-25C/<70% respectively.

Surface Preparation

- All surfaces must be cleaned free from dirt, grease, oil or other surface contaminants before application.
- Use a mould release agent on any surface if de-moulding is required after curing.

Mixing and Pouring

- Art Res Deep Pour should be 2:1 by volume (Resin:Hardener)
- A paint/epoxy drill mixer may be used but ensure to mix the epoxy slowly as to ensure minimal bubbles are entrained into the mixture.
- Periodically scrape the sides and bottom of the mixing container to ensure a complete mix.
- Pouring slowly will help to mitigate agitation and subsequent air entrainment into the epoxy.
- Cure speed of epoxy is directly linked to pour volume; this product is designed for large river pours, small pours will still cure, however they may take longer (up to 14days)
- Whilst the product provides great natural air release, a heat gun or gas torch can be used to eliminate stubborn bubbles, use caution, and use only brief passes the heat gun to avoid overheating parts of the pour.

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- The casting area should be dust-free, or the mould should be covered with a protective sheet to stop particulate from entering the curing epoxy.
- When covering your pour, ensure there is still some ventilation so excess heat is able to escape as the epoxy cures.

Demolding

- Pours 20mm-60mm can be demolded after 48-72h after initial pour (dependent on pour volume, depth, and ambient conditions).
- If product has not hardened sufficiently, wait 24hs and check again before demolding.

POUR DEPTH/VOLUME

- This product is designed to be poured at depths of 15mm-60mm however larger/smaller pours (5mm-100mm can be poured.
- Larger pours >60mm will result in more heat, and increased resultant yellowing.
- Thin pours <15mm may simply take longer to fully cure. (up to 9 days).

CLEAN UP

We highly recommend using Art Res Cleaning Solution to clean equipment and minor spills as it has been especially designed to be less toxic and more effective than other solvents e.g., Xylene, acetone.

PRECAUTIONS

Some individuals may experience a skin reaction to **Art Res®.**

- Always wear nitrile gloves and protective eyewear when handling this or any other epoxy product.
- Work in a well-ventilated space
- Wear a ventilator rated for organic vapours when pouring projects with large surface area.
- In case of skin contact, wash with water and soap.
- In case of eye contact, immediately rinse with water for at least 15 minutes and consult a doctor.

STORAGE

Art Res Deep Pour should be stored between 10°C and 30°C away from direct sunlight. Shelf life is 12 months in original unopened container. Partly used containers must be sealed tight when not in use.

FIRE

Art Res Deep Pour Part A and Part B are non-flammable and as such does not pose a fire risk.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Illawarra Coatings' products, are given in good faith based on Illawarra Coatings' current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

It is your responsibility to ensure that our products meet your requirements, are used and handled correctly in accordance with any applicable Australian Standard, our instructions and recommendations and only used for the applications for which they are intended.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

We also reserve the right to update information without prior notice to you to reflect our ongoing research and development.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with these.