

# TECHNICAL DATA SHEET

## Product Name

### Aldax Crystal Cast Epoxy Casting Resin

## Product Description

Epoxy based general purpose casting system for processing and curing at room temperature. Product highlights include: low initial viscosity, good thermal stability at temperature 20°C to 70°C, and good mechanical properties.

## Physical Properties

### Resin

Viscosity at 25°C	mPa.s	500 – 1000
Specific Gravity at 25°C	g/cm <sup>3</sup>	1.1 – 1.15
Colour		Clear liquid

### Hardener

Viscosity at 25°C	mPa.s	200-260
Specific Gravity at 25°C	g/cm <sup>3</sup>	1.0-1.05
Colour		Clear liquid

## Handling Properties

Mix Ratio	Resin : Hardener by weight	100 : 50
	Resin : Hardener by volume	2 : 1
Usable life	(200g mix) @ 15°C	60-70 minutes Peak Exotherm 110°C
	(200g mix) @ 25°C	30-40 minutes Peak Exotherm 125°C
	(200g mix) @ 35°C	10-20 minutes Peak Exotherm 150°C
Demould Time		3 hours

## Handling Precautions

This resin and hardener combination has been formulated with the objective of being as safe as possible, however, in common with most epoxy resins and hardeners, consistent skin contact with uncured materials may cause irritation of sensitive skins. For this reason, contact with the uncured materials should be avoided at all times.

Materials will become very hot during curing (up to 160°C). Do not touch in under the specified demoulding time or burns to the skin may occur. Our testing is based on a 200g sample size. Larger amounts of resin and hardener will get hotter during curing. Ensure that casting is done in a well ventilated area as some vapors will be released at these curing temperatures. Please refer to the Materials Safety Data Sheet for more information.

## Storage

Store the components in a dry place at 18 - 25 °C, in tightly sealed original containers.

## Issue Date

1st July 2015

## Revision Number

1

## 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.