

# ASTERITE<sup>®</sup> LAR - Embedment Technical Data Sheet

This technical data sheet covers all Series 800 grades

- For the production of embedments/ encapsulations and financial tombstones

## Description

ASTERITE<sup>®</sup> Liquid Acrylic Resin Series 800 is a methyl methacrylate based casting resin which, when used with our specially developed hardener, ASTERITE<sup>®</sup> Catalyst Z8 and then exposed to ultra-violet fluorescent light under controlled conditions forms a clear, solid article.

## Series 800 Benefits

### Benefits

- Exceptional gloss and clarity
- Outstanding ultra-violet (UV) stability and resistance to yellowing
- Very high surface hardness
- Excellent resistance to a wide range of chemicals and reagents including water, alcohol and dilute acids and alkalis

## Application

Specifically formulated to optimise production of embedments/ encapsulations and financial tombstones.

A wide variety of specimens can be embedded using the embedment casting system. It is important that the specimen is suitably prepared prior to embedding. This may include drying of the specimen in some cases.

To avoid the formation of bubbles the specimen may need to be treated with in ASTERITE<sup>®</sup> LAR Series 200.

In other cases surface conditioning of the specimen may need to be completed in order to prevent a change in its appearance during the embedding stage.

The use of vacuum may be required to remove air after mixing with ASTERITE<sup>®</sup> Catalyst Z8 (recommended level is 1-2% w/w).

Due to the wide range of specimens that may be embedded there will always be some experimentation required to optimise results.

The cured article should be annealed which involves heating to 90°C for at least 1-2 hours depending on its size and thickness.

The embedment should then be cooled slowly to room temperature at a rate no greater than 12°C per hour.

Cutting/ machining followed by sanding and polishing may be required to produce the final article.

Further details on how to manufacture cast articles can be found in the production guideline document.

## Supply

50L drums (47 kg net): Minimum order quantity is 27 drums at 1.27 Tonnes and multiples thereof.

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## Storage

To ensure maximum stability and maintain optimum resin properties store in closed containers. Store at temperatures below 25°C / 77°F and away from heat ignition sources and sunlight. Should be warmed to at least 18°C / 65°F prior to use in order to assure proper curing and handling. All storage areas and containers should conform to local fire and building regulations. Store separate from oxidizing materials, peroxides and metal salts. Keep containers closed when not in use.

## Safety

Read and understand the Material Safety Data Sheet before working with this product. Stable in the presence of inhibitor. Will exothermically polymerise in the presence of initiators. Susceptible to polymerisation initiated by prolonged storage or the presence of catalyst.

## Table of Properties

Values quoted are the results of tests carried out on representative samples and do not constitute a specification.

Property	Test Method	Unit	Value
<b>Physical Data in Liquid State at 23°C</b>			
Viscosity Brookfield LV SP/4/60 rpm	EN ISO 2555	mPa's/ cps	4200-5200
Appearance Light Transmission	Visual Internal		Free from particulates >90
Density	EN ISO 2811	g/ cm <sup>3</sup>	1.02 - 1.05
Flash Point	Closed Cup	°C	10
Monomer Boiling Point		°C	99-101
Shelf Life (from date of manufacture)		Months	9

### ASTERITE® Liquid Acrylic Resin

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