

# TWO-PART, FAST-SETTING LIQUID EPOXY PLASTICAST 300

## TECHNICAL DATA

### 1.0 DESCRIPTION

PLASTICAST 300 is a very-fast setting, clear, two-part liquid epoxy for bonding timber, glass, ceramics and some other materials. It may be used as supplied, or mixed with fillers to create a flowable grout.

### 2.0 PHYSICAL PROPERTIES:

2.1	Viscosity	Low.
2.2	Mix Ratio	1 : 1 by volume.
2.3	Pot Life	maximum 5 minutes at 25°C.
2.4	Minimum Application Temp.	0°C.
2.5	Maximum Casting Thickness	10 mm (dependent on surrounding substrate as exotherm for large castings is above 140°C)
2.6	Shelf Life	1 year in original unopened containers.
2.7	Cured Properties (24°C for 7 days)	
2.7.1	Colour	Transparent.
2.7.2	Specific Gravity	1.14
2.7.3	Hardness, shore D	1 hour: 72, 4 hours: 77, 1 day: 79
2.7.4	Water absorption	0.4% weight increase for 1 day immersion at 24°C.
2.7.5	Tensile lap shear	2845 psi cured 4 hours at 24°C (aluminium to aluminium)

### 3.0 USES

PLASTICAST 300 may be used in applications where a fast-setting, high strength liquid epoxy is required. Uses include bonding timber to timber, metal to metal, glass to glass, model making, etc. PLASTICAST 300 may also be used as on its own to seal cracks and gaps at low temperatures and can be mixed with cement and/or dry silica sand to create a flowable grout.

### 4.0 APPLICATION INSTRUCTIONS

- 4.1 MIXING. Accurately measure required volume of Resin and Hardener, mix THOROUGHLY. Hand mixing is adequate for small volumes. A paint stirrer fitted to a low speed electric drill may be used for larger volumes but care must be taken to avoid air entrapment. During the mixing process scrape the bottom and sides of the container to ensure all components are incorporated.
- 4.2 Do not mix more PLASTICAST 300 than can be used within 5 minutes. Pot life will be reduced for larger volumes. Ensure mixing container can withstand expected exothermic heat (above 140°C).

# PLASTICAST 300

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## TECHNICAL DATA Continued

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### 4.0 APPLICATION INSTRUCTIONS (continued)

- 4.3 When PLASTICAST 300 is to be mixed with silica sand/cement, resin and hardener should first be mixed as above. Sand/cement to be added to the epoxy must be completely dry. Blend in sufficient sand/cement to obtain the desired viscosity and mix until an even texture is obtained. Do not add more than 2 parts aggregate to 1 part epoxy. Place immediately.
- 4.4 When bonding, apply PLASTICAST 300 to one surface only and press the other surface to be bonded together. Support both surfaces until PLASTICAST 300 has initially cured (5 minutes). Full strength will be attained after 1 – 4 days. PLASTICAST 300 is not suitable for continual immersion underwater.

### 5.0 PACKAGING

PLASTICAST 300 is available in 500ml packs.



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