



# POLYMER TECHNOLOGIES (PTY) LTD

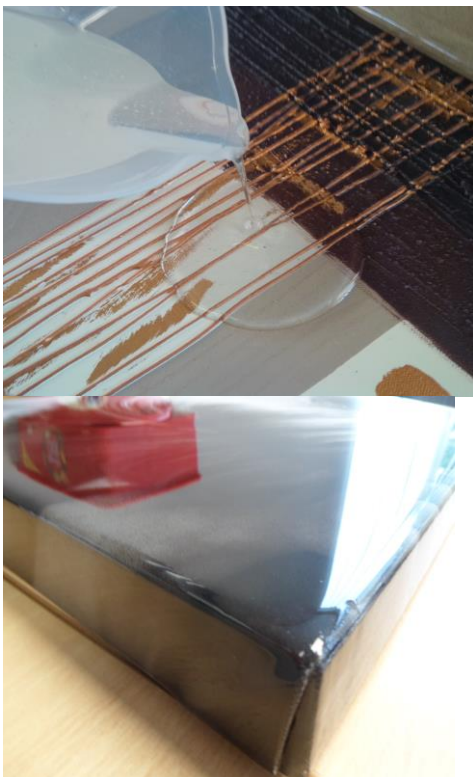
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## MASTER-CAST 1-2-1 ( FR67 )

### OPTICALLY CLEAR ARTWORK & CASTING RESIN



PRODUCT:	An ambient temperature curing, solvent free high build high gloss U.V stabilised transparent epoxy coating / casting Resin				
APPLICATION:	By pouring, brush or roller				
VISCOSITY:	23°C (73°F)		25°C (77°F)		
Resin:	6 500	6 800 mPa.s	5 500	5 600 mPa.s	
Hardener:	2 200	2 300 mPa.s	1 900	2 000 mPa.s	
Mixed Viscosity:	4 400	4 700 mPa.s	3 700	3 900 mPa.s	
COLOUR:	Resin:	Clear	Transparent		
	Hardener:	Clear	Transparent		
SPECIFIC GRAVITY:	23°C (73°F)				
Resin:	1.11	1.15 g/cm³			



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Hardener:	0.94	0.96 g/cm <sup>3</sup>	
MIXING RATIO:	By Weight	By Volume	
	100 parts Resin	100 parts Resin	
	90 parts Harder	100 parts Hardener	
COVERAGE: (applied 0.5 mm thick) thick ).	1 m <sup>2</sup> per 0.5 litre mixed resin ( based on a self-levelling layer of 0.5mm		
PRACTICAL WORKING TIME: (250 g mixed resin):	23°C (73°F) 10 15 Minutes	25°C (77°F) 10 12 Minutes	
GELTIME: (250 g mixed resin) (5 mm casting) (2 mm coating)	23°C (73°F) 20 25 Minutes 55 60 Minutes 65 70 Minutes	25°C (77°F) 20 21 Minutes 50 - 55 Minutes 55- 60 Minutes	
SETTING TIME: (250 g mixed resin): (5 mm castings) (2 mm coating)	23°C (73°F) 26 27 Minutes 4 4½ Hours 4½ - 5 Hours	25°C (77°F) 24 25 Minutes 3½ - 4 Hours 4 4½ Hours	
TOUCH DRY	23°C (73°F) 6 7 Hours	25°C (77°F) 5½ - 6 Hours	

## Page 2 Master-Cast 1-2-1

HARDNESS: (Cured 24 Hours / 25°C (77°F) Hardness at 60°C (140°F)	Shore D: 75 78 Shore D 30 35	
MINIMUM APPLICATION TEMPERATURE:	10°C (50°F)	
HEAT RESISTANCE:	Suitable for applications up to 50°C (122°F)	
TENSILE STRENGTH: (Din 53455)	40 MPa	
FLEXURAL STRENGTH: (Din 53452)	65 MPa	
COMPRESSIVE STRENGTH AT YIELD:	(Din 53454) 24 MPa	
ELONGATION:	9 %	
IMPACT STRENGTH:		



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3.5 kJ/m<sup>2</sup>

Good: resistance against water  
Fair: resistance against diluted acids and alkalines  
Poor: resistance against most solvents  
( individual tests are recommended ).

Master-Cast 1-2-1 Resin produces an optically clear, high gloss and tough coating with good impact and abrasion resistance.

The excellent clarity and transparency makes the resin system particularly suitable for the protection and decoration of:

- Artwork ( paintings, sculptures and layered collage )
- Wood and timber artifacts
- Clocks, pictures and puzzles
- Tabletops and bar counters
- Badges, emblems and jewellery manufacture
- Flower-setting and paperweights

Further applications include:

- Doming and Decoupage
- Electronic encapsulating and Potting
- Reinforced composites and fiberglass lamination
- General adhesive and bonding applications

Stored under dry and cool conditions in sealed packaging: 12 months.

Non-toxic at ambient temperatures, very low skin irritation potential. However we always recommend good industrial hygiene is observed (wearing gloves, long-sleeved clothing, adequate ventilation, no eating, drinking or smoking during resin mixing and application ).

The technical specification and/or our technical advice, whether verbal, in writing or by trials, is given in good faith and based on our test results obtained but without warranty. It does not release the user from the obligation to test the products supplied by us or any third party as to the suitability for the intended application.

The application, use and processing of the products are beyond our control and Polymer Technologies Pty Ltd " " " " " " any sale of its products shall be determined by the terms of its conditions of sale.

Directors: J.A.W Friedrich (German), O Friedrich