

MASTERCAST 1-2-1 DECOUPAGE RESIN

PRODUCT:	An ambient temperature curing, UV stabilised, solvent free – high gloss - transparent Epoxy Coating/Casting Resin	
APPLICATION:	By brush or casting	
VISCOSITY:	23°C (73°F)	25°C (77°F)
Resin:	5 500 – 6 000 mPa.s	5 000 – 5 500 mPa.s
Hardener:	3 000 – 3 200 mPa.s	2 800 – 3 000 mPa.s
Mixed Viscosity:	2 500 – 2 800 mPa.s	2 000 – 2 500 mPa.s
COLOUR:	Resin: Clear – Transparent	Hardener: Clear – Transparent
SPECIFIC GRAVITY:	23°C (73°F)	
Resin:	1.11 – 1.15 g/cm ³	
Hardener:	0.94 – 0.96 g/cm ³	
MIXING RATIO:	By Weight 100 parts Resin 90 parts Harder	By Volume 100 parts Resin 100 parts Hardener
COVERAGE:	(applied 1 mm thick) 1 m ² per 1 litre mixed resin	
PRACTICAL WORKING TIME:	23°C (73°F) 10 – 15 Minutes	25°C (77°F) 10 – 12 Minutes
(250 g mixed resin):		
GELTIME:	23°C (73°F)	25°C (77°F)
(250 g mixed resin)	30 – 35 Minutes	25 – 30 Minutes
(5 mm casting)	55 – 60 Minutes	50 – 55 Minutes
(2 mm coating)	65 – 70 Minutes	55 – 60 Minutes
SETTING TIME:	23°C (73°F)	25°C (77°F)
(250 g mixed resin):	35 – 40 Minutes	30 – 35 Minutes
(5 mm castings)	4 – 4½ Hours	3½ – 4 Hours
(2 mm coating)	4½ – 5 Hours	4 – 4½ Hours
TOUCH DRY	23°C (73°F) 6 – 7 Hours	25°C (77°F) 5½ – 6 Hours
HARDNESS:		
(Cured 24 Hours / 25°C (77°F)	Shore D: 75 – 78	
Hardness at 60°C (140°F)	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: (Din 53453)	3.5 kJ/m ²
CHEMICAL RESISTANCE:	Good: resistance against water Fair: resistance against diluted acids and alkalines Poor: resistance against most solvents (individual tests are recommended)
PROPERTIES AND USES:	The MASTERCRAFT 1-2-1 Resin produces a high gloss, flexible and tough coating with good impact and abrasion resistance. The excellent clarity and transparency make the Resin System particularly suitable for the protection and decoration of: <ul style="list-style-type: none">• Wood and wooden artifacts• Clocks, pictures, sculptures• Tabletops, counters• Badges, jewellery Further applications include: <ul style="list-style-type: none">• Doming and Decoupage Resins• Clear – transparent Encapsulating, Potting Resins• Reinforced Composites• Adhesives
STORAGE STABILITY	Stored under dry and cool conditions in sealed packaging: 12 months.
TOXICITY:	Non-toxic at ambient temperatures, very low skin irritation potential. However, gloves should be worn and adequate ventilation must be ensured during application.

NOTICE:

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 Elite Chemical Industries (Pty) Ltd's legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.

DECEMBER 2024
JAWF/rb