

POXYART RESIN

DATA SHEET

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:	6 200 – 6 500 mPa.s	5 500 – 6 000 mPa.s
Hardener:	1 920 – 2 000 mPa.s	1 300 – 1 500 mPa.s
Mixed Viscosity:	2 200 – 2 500 mPa.s	1 800 – 2 000 mPa.s

COLOUR:		
Resin:	Clear	– Transparent
Hardener:	Clear with slight Yellow tint	– 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	By Volume
	100 parts Resin	100 parts Resin
	90 parts Hardener	100 parts Hardener

COVERAGE:	
(applied 1mm thick)	1 m ² per 1 litre mixed resin
(applied by brush 0.2-0.3mm thick)	1m ² per 0.250 litre mixed resin

PRACTICAL WORKING TIME:	23°C (73°F)	25°C (77°F)
(250 g mixed resin):	10 – 15 Minutes	10 – 12 Minutes

GELTIME:	23°C (73°F)	25°C (77°F)
(250 g mixed resin)	20 – 25 Minutes	20 – 21 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):	26 – 27 Minutes	24 – 25 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)	25°C (77°F)
	6 – 7 Hours	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 TEMP: 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/m²

CHEMICAL RESISTANCE:

Good: resistance against water
Fair: resistance against diluted acids and alkaline
Poor: resistance against most solvents
(Individual tests are recommended)

PROPERTIES AND USES:

PoxyArt Casting Resin produces a high gloss, flexible 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:

- Wood and wooden artifacts
- Clocks, pictures, sculptures
- Tabletops, counters
- Badges, jewellery
- Silk flowers and Vegetables

Further applications include:

- 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 PoxyArt's legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.

For any further information, please don't hesitate to contact us via info@poxyart.com

PoxyArt Casting Resin is available for online purchase from www.poxyart.com

This document was revised March 2017 at which all information was deemed current and correct.