

Technical data sheet

Resin

Hardener

RP 026 UV

IPE 743 L

100	Mixing ratio by weight	40
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Applications

Models and transparent objects.

Processing

Mass casting on high thicknesses. Curing at room temperature.

Product information

Epoxy system unfilled, very high transparency. Excellent resistance to yellowing.

Product characteristics	Resin	Hardener
<i>Colour</i>	colourless	colourless
<i>Viscosity at 25°C (mPas)</i>	600 – 800	50 – 150
<i>Density at 25°C (g/ml)</i>	1,09 – 1,12	0,95 – 1,00
<i>Mixing ratio by volume (ml)</i>	100	45

System typical characteristics

Pot life (200 ml, 50 mm, 25°C)	min	150 – 250
Exothermal peak (200 ml, 50mm, 25°C)	°C	50 – 80
Demoulding time (15 ml, 5 mm, 25°C)	h	25 – 30
Post-curing at 40°C (suggested)	h	10 – 15
Maximum recommended thickness**	mm	50 – 60

**** Maximum casting thickness depends highly on mould material, its dimensions and room temperature. For thickness over 30 mm or for mass casting over 5 kg consult Trias Chem technical service.**

RT = room temperature (23±2°C)
Conversion units: 1 mPas = 1 cPs 1MN/m² = 10 kg/cm² = 1 MPa

RP 026UV – IPE 743 L

TYPICAL CURED SYSTEM PROPERTIES

(standard curing: 24h at room temperature + 15h 60°C)

Colour		colourless
Density	g/ml	1,05 – 1,10
Glass transition	°C	56 – 60

Instructions for a proper use

Verify and, if necessary, homogenize components before use.

Mix the two components (resin and hardener) in the proper mixing ratio avoiding air trapping until an homogeneous mixture is obtained, then apply.

Prepare surface of mould with 2 or 3 applications of wax release agent (consult release agent data sheet).

Post-curing

Post-curing is always advisable to stabilize the cured handwork to reach the best mechanical properties. Post-curing becomes necessary when the handwork is used at elevated temperatures. Post-cure the handwork increasing temperature avoiding thermal gradients over 10°C/hour. The thermal gradient and post curing time refer to standard specimens. Users should find the best conditions depending on the component size and shape. For big size components decrease the thermal gradient and increase the post-curing time; in the case of thin layer applications and composites post cure on the jig.

Storage and handling precautions

Epoxy resins and hardeners can be stored over two years in the original sealed package in a cool and dry place. Hardeners are moisture sensitive.

Refer to the product health and safety data sheet.

First emission date: **December 15th 2020**

Rev. n°1 **November 7th 2022**

Information given in this publication is based on the present state of our technical knowledge. Buyers and users should make their own assessments of our products under their own applications conditions.