



Technical data

Epoxy casting resin "waterclear"

Two-component clear, colourless epoxy system

Description

- Excellent UV resistance
- Supertransparent constituents
- Polishable, hard surface
- Excellent impact strength
- Completely tackfree curing even in thin coats
- Ideal for transparent coatings
- Also suitable as a laminating resin system with a very long pot life



The system's reactivity was raised for smaller initial and casting quantities. An initial 500 g can be cast per mould without the surface collapsing. Coats up to 50 mm are possible with larger initial quantities.

Like all reactive resin systems the casting quantity is limited by the generated reaction heat (exothermal reaction): often a lower curing temperature (e.g. at an ambient night temperature lower than 20 °C) can counteract too great an exothermal reaction.

Processing

Resin and hardener are homogenised for about two minutes at room temperature (20–25 °C). Afterwards the mixture is left to rest for approx. 20 minutes.

Leave the ready mixture on a flat surface for 48 hours. Please do not mix or otherwise move the product.





Epoxy casting resin "waterclear"

Modified, low-viscous epoxy resin

Description

- Epoxy casting resin for hardener "waterclear"

Application

A universal reactively diluted epoxy resin, which can universally be used for various applications of cold curing epoxy binders

Single components: 2,25 kg - 200 kg order no. 107 106-X, set of two components: (siehe Härter)

Epoxy casting resin "waterclear"	Unit	Value
Delivered state	-	liquid
Colour index	Gardener	< 2
Density at 23 °C	g/cm ³ /23 °C	1,14 ± 0,01
Viscosity at 23 °C	mPa*s/23 °C	950 ± 100
Epoxy value	100 g/equivalent	0,578
Epoxy equivalent	g/equivalent	173 ± 10
Refractive index DIN 51 423-2	-	1,553 ± 0,001
Storage (original packed)	months	min. 12

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processibility. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility. Publication is not a licence and does not intend the violation of any patents. **PoxySystems®** is a registered trademark of R&G.

Ausgabe 06/2010, Änderungen vorbehalten





Hardener "waterclear"

Description

- Hardener for epoxy casting resin "waterclear"
- Mixing ratio: 100 : 37 parts by weight resin : hardener
- Processing time ca. 5 hours
- Curing time approx. 24–48 hours

Application

A very low-viscous hardener with long pot-life, heat development and good yellowing resistance which is used for the viscosity and reactivity (pot-life) of other hardeners for solvent-free epoxy system

Single components: 835 g - 200 kg order no. 107 111-X, set of two components: 310 g package order no. 107 102-1, 685 g package order no. 107 102-2, 1,37 kg package order no. 107 102-3

Hardener "waterclear"	Unit	Value
Delivered state	-	liquid
Colour index	Gardener	< 1
Density at 23 °C	g/cm ³	0,95
Viscosity at 23 °C	mPas	15
Amine equivalent	g/equivalent	61
Refractive index DIN 51 423-2	-	1,4470 ± 0,0008
Storage (original packed)	months	min. 12