

Epox R1 + Hardener H1 fast

Technical Data Sheet Epox R1 + Hardener H1 fast

Characteristics

Solvent-free two-component epoxy resin system free of alkylphenols and benzyl alcohol

Application and properties

The epoxy system Epox R1 + hardener H1 system is a solvent-free 2-component EP binder that is particularly suitable for casting applications (up to 2cm) with high transparency due to its relatively low exothermia and very low tendency to yellowing.

Specification Comp. A

Feature	Value	Unit	Measurement Method
Viscosity at 25 °C	550 ± 100	mPas	ISO 3219
FTIR Comparison	PASS		
EP equivalent weight	200 ± 10	g/Eq.	
Refractive index	1.544 ± 0.001		ASTM D 1747
Density at 23°C	1,08-1,12	g/cm ³	ISO 2811-2

Specification Comp. B

Viscosity at 25 °C	650 ± 100	mPas	ISO 3219
FTIR Comparison	PASS		
Hazen Color Number	<50	mgPt/L	DIN EN ISO 6271
Amine number	330 ± 30	mgKOH/g	
Refractive index	1,480 ± 0,002		ASTM D 1747
Density at 23°C	0,98-1,02	g/cm ³	ISO 2811-2

System Features

Mixing ratio	100/50	Wt Parts	Resin/Hardener
Initial viscosity at 25 °C	approx. 500	mPas	ISO 3219
Pot life*	approx. 30	min.	v. 23 -> 40°C with 100ml
min. Curing temperature	16	°C	
Shore D n. 7 d RT	82		DIN ISO 7619-1

Storage

At room temperature, the shelf life of both components in originally packaged containers is at least 12 months.

Information on occupational health and safety

When processing epoxy resins and hardeners, the usual precautions for handling chemicals as well as applicable official occupational health and safety and environmental protection regulations must be observed. Particular attention must be paid to skin protection and the selection of suitable protective gloves. Detailed information on hazards, labelling, occupational health and safety and environmental protection can be found in the product safety data sheet.

*The gel time is approximately twice the stated value

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As of 08/2024