

Basis	2 - Component - Epoxy Resin
Resin	BIV Epoxy 800
Hardener	BIV hardener 800
Colour	transparent

Applications

- Boatbuilding
- Hand laminating
- Injection process
- Vacuum infusion

Properties

- certified according to germanischer lloyd
- long processing time
- very low viscosity

Processing data

Product		Mixture BIV Epoxy 800/BIV hard. 800	Resin BIV Epoxy 800	Hardener BIV hardener 800
Colour		transparent	transparent	transparent
Mixing ratio	p. b. w.		100	30
Viscosity at 25°C	mPas	190 ± 20	400 ± 150	10 ± 5
Density at 20°C	g / cm ³	1,10 ± 0,02	1,15 ± 0,02	0,93 ± 0,02
Pot life 100 g / 20°C	min.	300 - 350	-	-
Pot life 500 g / 23°C	min.	270 - 310	-	-
Curing time at RT	hrs.	-	-	-
Post curing	Time in h/ Temperature in °C	4 - 6 / 80	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	110 ± 10
Flexural modulus	EN ISO 178	MPa	3000 ± 250
Tensile strength	EN ISO 527	MPa	75 ± 4
Tensile modulus	EN ISO 527	MPa	
Breaking elongation (tensile)	EN ISO 527	%	
Compressive strength	EN ISO 604	MPa	
Heat resistance (HDT)	DIN EN ISO 75 B	°C	85 ± 3
Glass transition temperature TG	DMA	°C	82 ± 3
Shore hardness	DIN 53505	Shore D	
Water absorption 24 h 23° C	DIN 53495 process L	%	
Water absorption 168 h 23° C	DIN 53495 process L	%	

Sales units (packages)

Units	BIV Epoxy 800	can 25 kg / barrel 50 kg / barrel 220 kg / container 1000 kg
	BIV hardener 800	can 7,5 kg / can 22 kg / barrel 180 kg

Processing instructions

The material- and processing temperature should be between 18°C – 25°C. The resin and hardener should be mixed intensively and bubble-free at room temperature.

For parts which don't require GL-approval, the pot life of the system can be accelerated by mixing the hardener BIV 800 with hardener W 15.

The mixing ratio resin-hardener remains 100 : 30. Pot life table for the mixture with different hardeners on demand.

In General

Thin laminates should be post cured for some hours at about 40°C before demoulding.

The parts show very good strength. To achieve maximum property values for example for flexural strength and heat resistance, we recommend thermal treatment at the recommended temperature.

By additional 4 hrs. post curing at 90 – 100 °C after thermal treatment for 10 hrs. at about 70°C, a heat resistance (TG) of more than 90°C is achieved.

Storing

Under good storage conditions (at room temperature) in closed original containers: 9 month. Under bad storage conditions (at 15°C) arising crystallisation can be neutralised by heating up to about 60°C.

Opened containers have to be closed immediately and protected against moisture. Use-up the material as soon as possible.

Safety measure

When processing this product the recommended protection measures of the government safety organization of the chemical industry should be followed. Safety advices should be followed.

The instructions and recommendations are given in good faith and are based on long experience and careful tests. Since the conditions of use are beyond our control, and due to versatility of applications and working methods, we can't give any guarantee. All information are non-binding and are no guarantee for special characteristics or properties of the product. Despite information given from **ebalta** the customer has to make his own tests regarding applications and processing. If any special warranty is requested, written agreement on this subject is essential.

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