

Basis	2 - Component - Epoxy Resin
Resin	BLH Epoxy 200
Hardener	BLH hardener K 25
Colour	greenish
Further hardeners	BLH hardener W 15 / BLH hardener W 400 / BLH hardener K 30

Applications

- Boatbuilding
- Hand laminating

Properties

- excellent soaking of aramid fibre cloth
- excellent soaking of glass fibre cloth
- excellent soaking of carbon fibre cloth
- certified according to germanischer lloyd
- good curing at room temperature
- low viscosity

Processing data

Product		Mixture BLH Epoxy 200 / K 25	Resin BLH Epoxy 200	Hardener BLH hardener K 25
Colour		greenish	transparent	dark green
Mixing ratio	p. b. w.		100	30
Viscosity at 25°C	mPas	650 ± 200	1200 ± 200	250 ± 100
Density at 20°C	g / cm ³	1,13 ± 0,02	1,15 ± 0,02	1,07 ± 0,02
Pot life 100 g / 20°C	min.	20 - 25	-	-
Pot life 500 g / 23°C	min.	-	-	-
Curing time at RT	hrs.	8 - 10	-	-
Post curing	Time in h/ Temperature in °C	12-15 / 50 - 80	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	130 ± 10
Flexural modulus	EN ISO 178	MPa	2900 ± 175
Tensile strength	EN ISO 527	MPa	83 ± 3
Tensile modulus	EN ISO 527	MPa	3450 ± 200
Breaking elongation (tensile)	EN ISO 527	%	5,3 ± 0,2
Compressive strength	EN ISO 604	MPa	-
Heat resistance (Martens)	DIN 53458	°C	66 ± 2
Glass transition temperature TG	TMA	°C	85 ± 2
Shore hardness	DIN 53505	Shore D	80 ± 2
Water absorption 24 h 23° C	DIN 53495 process L	%	0,12
Water absorption 168 h 23° C	DIN 53495 process L	%	0,29

Sales units (packages)

Units	BLH Epoxy 200 BLH hardener K 25	can 25 kg / barrel 50 kg / barrel 200 kg / container 1000 kg can 7,5 kg / can 30 kg / barrel 200 Kg
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Processing instructions

The temperature of material and processing should be between 18 and 25 °C.

The mixing of resin and hardener should be made thoroughly and preferably without air bubbles at room temperature.

In General

Slight discoloration of the hardener by oxygen possible. Discoloration to red-brown of hardener K 25 by oxygen, which doesn't affect the products quality.

1) Demoulding of laminates made at room temperature (20°C) is possible. 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.

2) 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 months

Under bad storage conditions (at 15°C) arising crystallization can be neutralized 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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