

Basis **2 - Component - Epoxy Resin, heat curing**
 Resin **BLH Epoxy 200**
 Hardener **BLH Hardener W 15**

Colour greenish transparent
 Further hardeners **BLH hardener W 400 /BLH hardener K 25**

Applications

- Boatbuilding
- Hand laminating

Properties

- BLH hardener w 15 is miscible with BLH hardener w 400
- post curing required
- excellent soaking of aramid fibre cloth
- excellent soaking of glass fibre cloth
- excellent soaking of carbon fibre cloth
- heavy duty bonded fabrics
- certified according to germanischer lloyd
- low viscosity

Processing data

Product		Mixture BLH 200 / W 15	Resin BLH Epoxy 200	Hardener BLH Hardener W 15
Colour		greenish transparent	transparent	greenish transparent
Mixing ratio	p. b. w.		100	30
Viscosity at 25°C	mPas	470 ± 80	1200 ± 200	30 ± 10
Density at 20°C	g / cm ³	-	1,15 ± 0,02	0,974 ± 0,02
Pot life 100 g / 20°C	min.	14 - 16	-	-
Pot life 500 g / 23°C	min.	12 - 15	-	-
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	108 ± 10
Flexural modulus	EN ISO 178	MPa	2310 ± 150
Tensile strength	EN ISO 527	MPa	72 ± 3
Tensile modulus	EN ISO 527	MPa	3780 ± 150
Breaking elongation (tensile)	EN ISO 527	%	9,0 ± 0,2
Compressive strength	EN ISO 604	MPa	
Heat resistance (Martens)	DIN 53458	°C	66 ± 2
Glass transition temperature TG	TMA	°C	83 ± 2
Shore hardness	DIN 53505	Shore D	80 ± 2
Water absorption 24 h 23° C	DIN 53495 process L	%	0,13 ± 0,01
Water absorption 168 h 23° C	DIN 53495 process L	%	0,34 ± 0,02

Sales units (packages)

Units BLH Epoxy 200 can 25 kg / barrel 50 kg / barrel 200 kg / container 1000 kg
 BLH Hardener W 15 can 7,5 kg / can 30 kg / barrel 190 kg

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, 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

At appropriate storage (room temperature) in closed original container 9 months.

Occurring crystallization, due to disadvantageous storage conditions, can be made return by warming up the material at approx. 60 °C.

Already opened containers should be closed immediately after use and also protected against moisture. Material should be used 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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