

Basis	High strength general purpose resin
Resin	AH 110
Hardener	TL-1
Colour	Yellowish transparent
Further hardeners	TGL / TGS / TG / GL / D

Applications

- Laminating resin also for heavy fabrics
- Bonding resin for fillers

Properties

- unfilled
- high strength
- high heat resistance
- medium viscosity

Processing data

Product		Mixture AH 110 / TL-1	Resin AH 110	Hardener TL-1
Colour		Yellowish transparent	Yellowish transparent	Yellowish transparent
Mixing ratio	p. b. w.		100	25
Viscosity at 25°C	mPas	700 ± 100	2000 ± 300	35 ± 10
Density at 20°C	g / cm ³	1,10 ± 0,02	1,17 ± 0,02	0,940 ± 0,02
Pot life 200 g / 20°C	min.	85 - 95	-	-
Curing time at RT	hrs.	24 - 28	-	-
Post curing	Time in h/ Temperature in °C	24 / RT + 8 / 80	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural elongation at break	EN ISO 178	%	135 ± 10
Flexural strength	DIN 53423	N / mm ²	6,1 ± 1
Flexural modulus	EN ISO 178	MPa	3100 ± 100
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	54 ± 9
Compressive strength	EN ISO 604	MPa	110 ± 10
Heat resistance (HDT)	DIN EN ISO 75 B	°C	105 ± 3
Shore hardness	DIN ISO 7619-1	Shore D	86 ± 3

Sales units (packages)

Units	Resin hardener	AH 110 TL-1	5,000 kg / 10,000 kg / 50,000 kg / 220,000 kg 0,975 kg / 5,000 kg / 50,000 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 intensively and if possible without any bubbles at room temperature.

We recommend a post curing with a temperature rise of about 10°C/hour. Difficult geometries should be supported during the curing cycle. Afterwards the part should be cooled down at about 20°C/hour.

In General

ebalta AH 110 is an unfilled epoxy resin with high strength values and dimensional stability, even at increased temperature. It can be used as casting resin with powdered fillers as aluminium powder, laminating resin with glass fabric and binder with grainy fillers as aluminium granules. Depending on application the suitable hardener can be mixed with the resin.

AH 110/TL-1 is suitable as binder and backfilling resin up to 100°C. For laminates post-curing is essential, if possible before demoulding.

Storing

At appropriate storage 18-25°C.

Occuring crystallization due to disadvantageous storage conditions can be made return by warming up the material at approx. 60° C for some hours.

Opened containers should be closed immediately after use and be protected against moisture. This material should be used up as soon as possible.

Shelf life is indicated on the labels

Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material. Please follow safety advices !

Waste Disposal

According to arrangement with local authorities cured material can be disposed as domestic or commercial waste.

Non-cured products are waste which is subject to inspection and has to be disposed accordingly.

In case of further questions please do not hesitate to contact our Department for Product Safety.

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.