

Basis	Universal general purpose resin
Resin	AH 100
Hardener	TG
Colour	yellowish transparent
Further hardeners	D / GL / TGS / TGL

Applications

- Binding resin for quartz sand
- Laminating resin for fabrics
- Binding resin for fillers

Properties

- unfilled
- low cost
- low viscosity

Processing data

Product		Mixture AH 100 / TG	Resin AH 100	Hardener TG
Colour		yellowish transparent	yellowish transparent	yellow transparent
Mixing ratio	p. b. w.		100	20
Viscosity at 25°C	mPas	650 ± 100	900 ± 150	200 ± 50
Density at 20°C	g / cm ³	1,12 ± 0,02	1,15 ± 0,02	0,96 ± 0,02
Pot life 200 g / 20°C	min.	40 - 50	-	-
Curing time at RT	hrs.	10 - 12	-	-
Post curing	Time in h/ Temperature in °C	-	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	100 ± 5
Flexural elongation at break	EN ISO 178	%	6,3 ± 0,5
Flexural modulus	EN ISO 178	MPa	2800 ± 200
Flexural elongation at break	ISO 37	%	-
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	30 ± 10
Compressive strength	EN ISO 604	MPa	80 ± 5
Shore hardness	DIN ISO 7619-1	Shore D	82 ± 3
Heat resistance (HDT)	DIN EN ISO 75 B	°C	75 ± 3
Coefficient of thermal expansion	internal test / Dilatometer	10 ⁻⁶ K ⁻¹	-
Linear shrinkage	internal	%	-

Sales units (packages)

Units	Resin	AH 100	5,000 kg / 10,000 kg / 25,000 kg / 50,000 kg / 220,000 kg
	Hardener	TG	1,000 kg / 5,000 kg

Processing instructions

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

The resin and hardener should be mixed intensively and as free of bubbles as possible at room temperature.

A heating rate of approx. 5 - 10 °C/hour is optimal. For difficult geometries, the use of a support mould is recommended.

The cooling rate should ideally be approx. 20 °C /hour.

In General

ebalta AH 100 is an unfilled, very low viscosity epoxy resin. Depending on the intended use, different hardeners can be used. AH 100/ TG is inexpensive and is also suitable as a binder resin for quartz sand negatives.

Storing

In temperature-controlled rooms at 18 - 25°C

Crystallisation occurring under unfavourable storage conditions can be reversed by heating to approx. 60 °C for some hours.

Always reseal opened containers immediately in a moisture-proof manner and use as soon as possible.

Please refer to the product labels for the shelf life of the material.

Safety measure

When processing this product, the protective measures recommended by the Employers' Liability Insurance Association of the Chemical Industry should be observed. Follow safety advice.

Waste Disposal

The cured materials can be disposed of as domestic or industrial waste after consultation with the relevant authorities.

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Please refer to the product labels for the shelf life of the material.

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.