

Basis	<b>Infusion resin</b>
Resin	<b>AH 150</b>
Hardener	<b>IP 430</b>
Colour	opaque
Further hardeners	<b>IP 25 / IP 55</b>

## Applications

- Boatbuilding
- Vehicle construction
- Aircraft construction
- Parts and moulds

## Properties

- very low viscosity
- good fibre wetting
- very long flow paths
- very long pot life

## Processing data

Product		Mixture AH 150 / IP 430	Resin AH 150	Hardener IP 430
Colour		opaque	opaque	transparent
<b>Mixing ratio</b>	<b>p. b. w.</b>		<b>100</b>	<b>30</b>
Viscosity at 25°C	mPas	250 ± 50	800 ± 100	20 ± 10
Density at 20°C	g / cm <sup>3</sup>	1,13 ± 0,02	1,16 ± 0,02	0,93 ± 0,02
Pot life 200 g / 20°C	min.	300 - 430	-	-
Curing time at RT	hrs.	36 - 48	-	-
Post curing	Time in h/ Temperature in °C	3 - 5 / 80	-	-

## Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	125 ± 1,2
Flexural modulus	EN ISO 178	MPa	3400 ± 300
Flexural elongation at break	EN ISO 178	%	5,9 ± 0,1
Impact resistance (Charpy)	EN ISO 179	kJ/m <sup>2</sup>	60 ± 6
compressive strength 0,75 % proof stress	EN ISO 604	MPa	95 ± 5
Shore hardness	DIN ISO 7619-1	Shore D	85 ± 3
Heat resistance (HDT)	DIN EN ISO 75 B	°C	79 ± 3

## Sales units (packages)

Units	Resin	AH 150	1,000 kg / 5,000 kg / 25,000 kg
	Hardener	IP 430	1,500 kg / 7,500 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 120 is a very low viscosity unfilled epoxy resin with high strength values and high dimensional stability, with appropriate hardeners even at elevated temperatures.

Due to its good impregnating and wetting properties, **ebalta** AH 120/IP 430 is suitable as an infusion and laminating resin for high-strength components or tools with fabrics made of glass or carbon fibres. The system can be used for vacuum infusions with flow paths up to approx. 1000 mm as well as for laminating thin or large laminates up to 15 mm thick.

With an heat treatment of 16 h / 50°C a temperature resistance of 66 °C is achieved.

The hardeners IP 25 and IP 430 can be mixed with each other, thus pot lives between approx. 25 min. and approx. 430 min. can be achieved. If required, please ask for the mixing table IP 25/IP 430.

## 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.