

Basis	<b>Infusion Resin</b>
Resin	<b>AH 150</b>
Hardener	<b>IP 55</b>
Colour	opaque
Further hardeners	<b>IP 10 / IP 25 / IP 430</b>

## Applications

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

## Properties

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

## Processing data

Product		Mixture AH 150 / IP 55	Resin AH 150	Hardener IP 55
Colour		opaque	opaque	yellowish transparent
<b>Mixing ratio</b>	<b>p. b. w.</b>		<b>100</b>	<b>30</b>
Viscosity at 25°C	mPas	350 ± 80	800 ± 100	55 ± 25
Density at 20°C	g / cm <sup>3</sup>	1,12 ± 0,02	1,16 ± 0,02	0,98 ± 0,02
Pot life 200 g / 20°C	min.	50 - 60	-	-
Curing time at RT	hrs.	20 - 30	-	-
Post curing	Time in h/ Temperature in °C	3 - 5 / 80	-	-

## Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	135 ± 10
Flexural modulus	EN ISO 178	MPa	3520 ± 250
Flexural elongation at break	EN ISO 178	%	5,8 ± 0,1
Impact resistance (Charpy)	EN ISO 179	kJ/m <sup>2</sup>	47 ± 11
compressive strength 0,75 % proof stress	EN ISO 604	MPa	105 ± 10
Shore hardness	DIN ISO 7619-1	Shore D	85 ± 3
Heat resistance (HDT)	DIN EN ISO 75 B	°C	78 ± 3

## Sales units (packages)

Units	Resin	AH 150	1,000 kg / 5,000 kg / 25,000 kg
	Hardener	IP 55	1,500 kg / 7,500 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 intensively and if possible without any bubbles at room temperature.

We recommend a post curing with a temperature rise of about 5 - 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 150/IP 55 is a low-viscosity two-component epoxy resin with high strength and high dimensional stability.

Due to its good soaking and wetting properties the resin/hardener mixture is suitable for infusion and laminating of solid parts with glass or carbon fibres.

The hardeners IP 25, IP 55 as well as IP 430 can be mixed with each other thus reaching pot life between 10 min. and 430 min. Please ask for our mixing table IP 25/IP 430.

**ebalta** AH 150/IP 55 is suitable for infusions with a flow distance up to approx. 700 mm as well as for laminating thin and large-area laminates up to 5 mm thickness.

## 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: see 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.