AH 100 / D

Technical Datasheet

Unfilled epoxy resin

Product is available in combination with alternative hardeners

Applications

binding resin for fillers
laminating resin for moulds / components

Properties

mixed viscosity	200 mPas
unfilled	

Processing data

Product		**Mixture**	**Resin**	**Hardener**
		AH 100 / D	AH 100	D
Colour		yellowish-transparent	yellowish-transparent	yellowish-transparent
Mixing ratio	**p.b.w.**		100	19
Viscosity at 25 °C	mPas	200 ± 50	825 ± 175	5 ± 2
Density at 20 °C	g/cm³	1,10 ± 0,02	1,15 ± 0,02	0,87 ± 0,02
Pot Life	minutes	45 - 55		
Demoulding time	hours	14 - 16		

Physical data

Properties	**Inspect. Requirements**	**Unit**	**Value**
Flexural strength	DIN EN ISO 178*	MPa	95 ± 5
Flexural elongation at break	DIN EN ISO 178*	%	5,6 ± 0,5
Flexural modulus	DIN EN ISO 178*	MPa	2900 ± 200
Compressive strength	DIN EN ISO 604*	MPa	80 ± 5
Impact resistance (Charpy)	DIN EN ISO 179-1*	kJ/m²	48 ± 10
Heat deflection temperature HDT	DIN EN ISO 75 B*	°C	58 ± 3
Shore hardness	DIN ISO 48-4*	Shore D	82 ± 3

* based on

Sales units (packages)

AH 100 yellowish transparent resin 1 kg bottle
AH 100 yellowish transparent resin 5 kg can
AH 100 yellowish transparent resin 10 kg can
AH 100 yellowish transparent resin 25 kg can
AH 100 yellowish transparent resin 50 kg drum
D colourless hardener 1,75 kg can
D colourless hardener 4 kg can
additional products
cleaning agent ebaclean, colourless 5 l can

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Processing instructions

Material- and processing temperature: between 18 - 25 °C.
Close containers after use.

The mixing ratio of resin and hardener must be adhered to according to the specifications.

For bubble-free mixing, we recommend our star stirrer.

Resin residues on stirring rods, etc., can be easily cleaned with ebaclean.

General

AH 100 is an unfilled, low-viscosity epoxy resin.

Depending on the intended application, various hardeners can be used.

The resin is suitable for use as a casting resin in combination with powdered fillers, such as aluminum powder, as a laminating resin for glass fiber reinforcements, and as a binder resin for granular fillers, such as quartz sand.

All specified characteristic values were determined after thermal conditioning at 60 °C for 16 hours.
The pot life was determined in accordance with internal test procedures using a 200 g sample at room temperature (approx. 23 °C).
The demolding times refer to demolding at room temperature

Storing

Storage at room temperature 18-25 °C.

Opened containers should be closed immediately after use and should be used up as soon as possible.

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

Safety measure

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

Please refer to the respective safety data sheets

Waste Disposal

The cured materials can be disposed of as household or commercial waste in consultation with the respective competent authority.

Uncured products must be properly disposed of in consultation with the competent authority.

For further questions, our product safety department is at your disposal.

Compliance & Legal

The information and recommendations provided are based on careful evaluation and practical experience. They reflect the state of our knowledge at the time of provision. Updates may be made without notice.
The information is intended as general guidance and does not constitute a warranty of specific characteristics or properties of the product. Due to the wide range of potential applications and processing methods, not all individual use cases can be covered.
The product must be used in accordance with the applicable safety and usage instructions. No liability will be accepted for improper use or application outside the intended purpose.
Unless otherwise agreed, it is the responsibility of the user to independently assess the suitability of the product for the intended application and processing method.
The information provided does not release the user from the obligation to seek individual advice in cases of uncertainty regarding specific applications.

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Statutory warranty rights remain unaffected.

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