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| Basis | General purpose resin |
| Resin | AH 219 |
| Hardener | AH 219 |
| Colour | Yellowish transparent |

Applications

- Laminating resin for fabrics
- Bonding resin for fillers
- 3 component system

Properties

- low viscosity
- curing at room temperature
- unfilled
- multi purpose useable

Processing data

| Product | | Mixture AH 219 | Resin AH 219 | Hardener AH 219 |
|------------------------|------------------------------------|---|-----------------------|-----------------------|
| Colour | | Yellowish transparent | Yellowish transparent | Yellowish transparent |
| Mixing ratio | p. b. w. | | 100 | 50 |
| Viscosity at 25°C | mPas | 1100 ± 200 | 8500 ± 1500 | 82 ± 10 |
| Density at 20°C | g / cm ³ | 1,10 ± 0,02 | 1,17 ± 0,02 | 1,02 ± 0,02 |
| Pot life 1000 g / 20°C | min. | 25 - 360 depending on the quantity of accelerator | - | - |
| Curing time at RT | hrs. | 16 - 72 depending on the quantity of accelerator | - | - |
| Post curing | Time in h/ Temperature in °C | 24 / RT + 8 / 60 | - | - |

Physical data

| Properties | Inspect. requirem. | Unit | Value |
|------------------------------|--------------------|-------------------|------------|
| Flexural strength | EN ISO 178 | MPa | 95 ± 5 |
| Flexural modulus | EN ISO 178 | MPa | 3300 ± 200 |
| Flexural elongation at break | EN ISO 178 | % | 4,0 ± 0,2 |
| Tensile strength | EN ISO 527-1 | MPa | 46 ± 3 |
| Tensil at break | EN ISO 527-1 | % | 5,7 ± 0,5 |
| Tensile modulus | EN ISO 527-1 | MPa | 1600 ± 100 |
| Impact resistance (Charpy) | EN ISO 179 | kJ/m ² | 35 ± 5 |
| Heat resistance (HDT) | DIN EN ISO 75 B | °C | 45 ± 2 |
| Shore hardness | DIN ISO 7619-1 | Shore D | 82 ± 2 |

Sales units (packages)

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 219 is a very viscous epoxy resin with good strength properties.

Due to its good soaking and wetting properties the resin/hardener mixture is mainly suitable for high strength parts with glass- and carbon fibre cloths.

ebalta AH 219 is suitable for laminating both thin and thick big surface laminates up to 15 mm thickness. All laminates are tack-free after curing, physical data have been identified on specimens, that were stocked for 7 days at room temperature.

The heat stability is of 57°C ± 2 after a post curing of 8 hours at 60°C, and 65 °C ± 2 after a post curing of 8 hours at 60°C.

For shorter potlife and curing time you can apply our accelerator AC 219.

The addition of accelerator AC 219 reduces the heat stability. The accelerator AC 219 can be subject to colour variations due to raw materials

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.