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| Basis | 2 - Component - Epoxy Resin |
| Resin | BIV Epoxy 800 |
| Hardener | BIV 20 |
| Colour | yellow transparent |

Applications

- Boatbuilding
- Hand laminating
- Injection process
- Vacuum infusion

Properties

- short potlife
- low viscosity

Processing data

| Product | | Mixture BIV 800 / BIV 20 | Resin BIV Epoxy 800 | Hardener BIV 20 |
|-----------------------|---------------------------------|-----------------------------|------------------------|--------------------|
| Colour | | yellow transparent | transparent | yellow transparent |
| Mixing ratio | p. b. w. | | 100 | 30 |
| Viscosity at 25°C | mPas | 450 ± 90 | 700 ± 150 | 180 ± 30 |
| Density at 20°C | g / cm ³ | 1,13 ± 0,03 | 1,15 ± 0,02 | 1,03 ± 0,02 |
| Pot life 200 g / 20°C | min. | 18 - 22 | - | - |
| Curing time at RT | hrs. | 16 - 24 | - | - |
| Post curing | Time in h/ Temperature in °C | 4 - 6 / 80 | - | - |

Physical data

| Properties | Inspect. requirem. | Unit | Value |
|---------------------------------|--------------------|----------------------------------|------------|
| Flexural strength | EN ISO 178 | MPa | 130 ± 15 |
| Flexural modulus | EN ISO 178 | MPa | 3850 ± 300 |
| Flexural strength at breakage | ISO 37 | % | 6,3 ± 0,3 |
| Impact resistance (Charpy) | EN ISO 179 | kJ/m ² | 20 ± 5 |
| Compressive strength | EN ISO 604 | MPa | 90 ± 10 |
| Heat resistance (HDT) | DIN EN ISO 75 B | °C | 87 ± 2 |
| Glass transition temperature TG | methode DSC | °C | ca. 77 |
| Shore hardness | DIN 53505 | Shore D | 85 ± 2 |
| Coefficient of linear expansion | DIN 53752 | 10 ⁻⁶ K ⁻¹ | - |
| Linear shrinkage | internal | % | - |

Sales units (packages)

| | | |
|----------|---------------|--|
| Units | BIV Epoxy 800 | can 25 kg / barrel 50 kg / barrel 220 kg / container 1000 kg |
| hardener | BIV 20 | 1 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 10°C/hour. Difficult geometries should be supported during the curing cycle. Afterwards the part should be cooled down at about 20°C/hour.

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.

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.

ebalta UK Limited . B2 Langham Park, Trent Lane . Castle Donington . Derbyshire DE74 2UT
t: +44 1332 814700 . f: +44 1332 814775 . e: info@**ebalta**.co.uk . w: www.**ebalta**.co.uk