Technical Datasheet

BIV 800 / BIV 20

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.

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