Technical Datasheet

P 26 / resin + hardener

Basis	**machinable epoxy lay-up paste**
Resin	**P 26**
Hardener	**P 26**
Colour	light grey
Further colours	redbrown

Applications

- Master models for big laminating tools
- Design models
- Aircraft, boat building, wind engery

Properties

- 10 - 35 mm layer possible
- low exothermic
- dimensionally stable
- very easy to work
- fine structure
- no sagging on vertical surfaces

Processing data

Product		**Mixture P 26 / resin + hardener**	**Resin P 26**	**Hardener P 26**
Colour		light grey	red brown	white
Mixing ratio	**p. b. w.**		**100**	**100**
Viscosity at 25°C	mPas	thixotrop	thixotrope	thixotrope
Density at 20°C	g / cm^3	0,75 ± 0,03	0,75 ± 0,03	0,75 ± 0,03
Pot life 500 g / 20°C	min.	45 - 60	-	-
workable at RT after	h	24 - 36	-	-

Physical data

Properties	**Inspect. requirem.**	**Unit**	**Value**
Flexural strength	EN ISO 178	MPa	19 ± 2
Flexural elongation at break	EN ISO 178	%	3,0 ± 0,1
Flexural modulus	EN ISO 178	MPa	940 ± 80
Impact resistance (Charpy)	EN ISO 179	kJ/m^2	3,5 ± 0,3
Compressive strength	EN ISO 604	MPa	16 ± 1
Shore hardness	DIN ISO 7619-1	Shore D	58 ± 2
Heat resistance (HDT)	DIN EN ISO 75 B	°C	72 ± 3
Glass transition temperature T_g	DSC	°C	ca. 75
Coefficient of thermal expansion	internal test / Dilatometer	$10^{-6}K^{-1}$	ca. 65
Linear shrinkage	internal	%	ca. 0,15

Sales units (packages)

Units	resin	P 26	30,000 kg, 130,000 kg
	hardener	P 26	30,000 kg, 130,000 kg

Processing instructions

Processing only by means of standard two-components machines for applying pastes.
Before processing make sure that the base construction is solid, stable and dust free. Material-, processing- and supporting frame-temperature between 19 - 24 °C.
Machining of surfaces not before 36 h after curing at room temperature.
Final properties are reached 7 days after curing at room temperature.

As base construction we recommend our **ebazell** 80 or **ebazell** 260. The lines flow into each other, no sagging of the 35 mm layers at vertical surfaces. P 26 can be processed head first.

1) Output
   Depending on the contour and surface the output is between 1.5 liters and 2.25 liters.
2) Spindle speed of mixer
   Employment of a dynamic, static mixer, according to output volume the spindle speed is between 2900 speed/min and 3750 speed/min
3) Pre-pressure on follower plate
   Pressure not more than 3.5 bar
4) Operating pressure
   Pressure inside the material pipes not more than 25 bar for 2.25 litres output. Otherwise unintentional cross-section reduction might arise
5) Temperature
   The processing temperature for the paste is 19-24°C. Temperature at the end of the output tube must not exceed 27°C.
6) Layer Thickness
   Material can be applied in a layer of 10-35 mm. All layers must be even, apply paste in corners radius-shaped.
   Attention: material accumulations! Uneven layer thicknesses and material accumulations lead to cracks.
7) Evacuation in case of change of container
   When using new material, take care that there are'nt any air entrapments between the container and the follower plate.
   For this purpose we recommend to discharge 750 ml of the material directly at the follower plate as well as behind the pump in each case. Only when having uniform material flow you can continue application of the paste.
8) Mixing faults
   Do not mix any material residues with the new material since this leads to uncontrolled air entrapments which cannot be removed by evacuation. Moreover this will cause faulty mixtures.

In General

ebalta P 26 is a thixotropic two-components system on epoxy base, which cures at room temperature.

The physical datas were measured at a postcuring, 8 h at 80 °C.

Heat resistance HDT, ISO 75 B is after 7 d RT 40 °C
Heat resistance HDT, ISO 75 B is after 24 h RT + 6 h/60 °C 59 °C
Heat resistance HDT, ISO 75 B is after 24 h RT + 8 h/80 °C 72 °C

Storing

At appropriate storage 18-25°C.

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.