

Basis	light weight, carbon fibre filled laminating paste
Resin	PS 16
Hardener	PS 16
Colour	blue mottled

Applications

- Supporting shells for heat treatment
- Jigs
- Jigs
- Fixtures

Properties

- very high strength
- dimensionally accurate

Processing data

Product		Mixture PS 16 / PS 16	Resin PS 16	Hardener PS 16
Colour		blue mottled	mottled	blue
Mixing ratio	p. b. w.		100	35
Viscosity at 25°C	mPas	pasty	pasty	140 ± 20
Density at 20°C	g / cm ³	0,75 ± 0,05	0,7 ± 0,05	1,02 ± 0,02
Pot life 500 g / 20°C	min.	30 - 40	-	-
Curing time at RT	hrs.	16 - 24	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	60 ± 5
Flexural modulus	EN ISO 178	MPa	3700 ± 200
	-	-	1,8 ± 0,2
Compressive strength	EN ISO 604	MPa	42 ± 5
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	6 ± 1
Heat resistance (Martens)	DIN 53458	°C	43 ± 2
Shore hardness	DIN 53505	Shore D	80 ± 2
Coefficient of linear expansion	DIN 53752	10 ⁻⁶ K ⁻¹	ca. 38

Sales units (packages)

Units	resin	PS 16	7,000 kg
	hardener	PS 16	2,45 kg

Processing instructions

Mix the soft resin paste with the liquid hardener in a mechanical mixer.

It can also be mixed with a spiral mixing rod in a hand drill machine or small quantities can even be mixed manually. The mixture is well done when the blue colour hardener and the paste show a uniform shade.

In General

ebalta PS 16 is a very light two component epoxy paste, which cures at room temperature, low shrinkage. The laminate paste of this system is reinforced with carbon fiber and other reinforcements and can be mixed very well with the hardener. The mixture can easily be applied, shows high strength after curing and can be used for jigs and reinforcement shells for mould making. The mixed laminate paste has a low specific weight and therefore it's very suitable for light constructions of complicated and big area reinforcements.

PS 16 can be used up to a maximum temperature of about 60 °C.
After 24 hrs. very good strength at room temperature, due to high flexural strength a layer of 5 - 10 mm is sufficient. Optimum strength is achieved when curing for 10-16 hrs. at 60-80°C.

With hardener TC it can be used to a temperature of more than 100°C.

Mixing ratio of PS 16 with hardener TC: 100:20.

Storing

At appropriate storage (room temperature) in closed original container 12 months. Occuring crystallization due to unfavourable storage conditions can be neutralized by warming up the material at approx. 60° C.
Already opened containers should be closed immediately after use and be protected against moisture. This material should be used as soon as possible.

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.

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