

Basis	Supple laminating paste
Resin	PS 03-1 resin
Hardener	PS 03-1 hardener
Colour	blue grey

Applications

- Core boxes
- Negatives
- Foundry patterns
- Mould constructions

Properties

- glassfibre filled
- heat resistant
- soft

Processing data

Product		Mixture PS 03-1 / resin+hardener	Resin PS 03-1 resin	Hardener PS 03-1 hardener
Colour		blue grey	grey	blue
Mixing ratio	p. b. w.		100	11
Viscosity at 25°C	mPas	paste	paste	220 ± 50
Density at 20°C	g / cm ³	0,96 ± 0,03	0,98 ± 0,02	0,98 ± 0,02
Pot life 200 g / 20°C	min.	40 - 50	-	-
Curing time at RT	hrs.	16 - 24 (at a thickness of 20-25 mm)	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	35 ± 5
Flexural modulus	EN ISO 178	MPa	4800 ± 400
Flexural strength at breakage	EN ISO 178	%	1,3 ± 0,3
Compressive strength	EN ISO 604	MPa	45 ± 4
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	4,5 ± 0,5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	68 ± 2
Shore hardness	DIN 53505	Shore D	75 ± 2

Sales units (packages)

Units	resin	PS 03-1 resin	25 kg
	hardener	PS 03-1 hardener	2,75 kg

Processing instructions

The mixing of the smooth resin paste with the liquid hardener should be executed in a mechanical mixer.

But **ebalta** PS 03-1 can also be mixed with a star stirrer in a hand drill gun or small quantities by hand.

A good mixing can be made out when a uniform colour shade is built from the blue hardener and the grey resin paste.

Mixing container, stirrer and hands can be easily cleaned with water.

In General

ebalta PS 03-1 is a very smooth, glass fiber filled two-component-epoxy resin paste, which cures at room temperature in the thickness of 10 - 20 mm, without considerable shrinkage.

Regarding this laminate paste system the laminate paste with glass fiber and other reinforcing material and the coloured hardener are especially good mixable with each other. The mixture can be easily applied and shows a very good strength after curing, so that negatives, casting models and core boxes can be produced. The mixed laminate paste has a low specific weight and is therefore very suitable for the lightweight construction of large-area reinforcements.

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.

Already opened containers should be closed immediately after use and be protected against moisture. This material should be used as soon as possible.

Information about the expiration date you find on the sales packages.

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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