PS 03-1 / PS 03-1 L

Technical Datasheet

Epoxy paste

Applications

core boxes
foundry models
negatives
mould making

Properties

filled with glass fibres

Processing data

Product		**Mixture**	**Resin**	**Hardener**
		PS 03-1 / PS 03-1 L	PS 03-1	PS 03-1 L
Colour		grey-blue	grey	blue
Mixing ratio	**p.b.w.**		100	11
Viscosity at 25 °C	mPas	pasty	pasty	450 ± 50
Density at 20 °C	g/cm³	0,96 ± 0,03	0,98 ± 0,02	0,98 ± 0,02
Pot Life	minutes	40 - 50		
Demoulding time	hours	16 - 24		

Physical data

Properties	**Inspect. Requirements**	**Unit**	**Value**
Flexural strength	EN ISO 178*	MPa	35 ± 5
Flexural elongation at break	EN ISO 178*	%	1,3 ± 0,3
Flexural modulus	EN ISO 178*	MPa	4800 ± 400
Compressive strength	EN 604*	MPa	45 ± 4
Impact resistance (Charpy)	EN ISO 179*	kJ/m²	4,5 ± 0,5
Heat deflection temperature HDT	DIN EN ISO 75-1*	°C	68 ± 2
Shore hardness	DIN ISO 48-4*	Shore D	75 ± 2

* based on

Sales units (packages)

PS 03-1 grey resin refill pack 25 kg cardboard box
PS 03-1L blue, hardener 2,750 kg can
additional products
cleaning agent ebaclean, colourless 5 l can

Processing instructions

Material- and processing temperature: between 18 - 25 °C.
Close containers after use.

The smooth resin paste should be mixed with the liquid hardener in a mechanical mixer.
Alternatively, it can also be mixed with a star stirrer attached to a electric drill, or in small quantities, by hand.
Proper mixing is easy to recognize when a uniform color tone has formed from the blue hardener and the gray resin paste.

Residues of resin on mixing containers and stirrers can be easily cleaned using ebaclean.

General

PS 03 - 1 is a smooth, glass fiber-reinforced epoxy resin paste.
This laminating paste is particularly suitable for lightweight construction of large-area reinforcements.

Consumption is approximately 12 kg/m² per 10 mm layer thickness.

The following layer thicknesses can be applied :
10 - 25 mm

All specified characteristic values were determined after 7 days of storage at room temperature.
The pot life was determined in accordance with internal test procedures using a 200 g sample at room temperature (approx. 23 °C).
The demolding times refer to demolding at room temperature

Storing

Storage at room temperature 18-25 °C.

Opened containers should be closed immediately after use and should be used up as soon as possible.

Please refer to the product labels for the shelf life of the material.

Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material.

Please refer to the respective safety data sheets

Waste Disposal

The cured materials can be disposed of as household or commercial waste in consultation with the respective competent authority.

Uncured products must be properly disposed of in consultation with the competent authority.

For further questions, our product safety department is at your disposal.

Compliance & Legal

The information and recommendations provided are based on careful evaluation and practical experience. They reflect the state of our knowledge at the time of provision. Updates may be made without notice.
The information is intended as general guidance and does not constitute a warranty of specific characteristics or properties of the product. Due to the wide range of potential applications and processing methods, not all individual use cases can be covered.
The product must be used in accordance with the applicable safety and usage instructions. No liability will be accepted for improper use or application outside the intended purpose.
Unless otherwise agreed, it is the responsibility of the user to independently assess the suitability of the product for the intended application and processing method.
The information provided does not release the user from the obligation to seek individual advice in cases of uncertainty regarding specific applications.
Statutory warranty rights remain unaffected.