

Basis **Versatile fast casting resin system**
 Resin **SG 700 Comp. A**
 Hardener **PUR 5 Comp. B**

Colour blue
 Further colours black / white/ red / green / brown

Applications

- Foundry patterns
- Core boxes
- Jigs
- Negatives
- Control castings
- Prototypes

Properties

- well castable
- fine structure
- dimensionally accurate
- fast curing
- versatile

Processing data

Product		Mixture SG 700 / PUR 5	Resin SG 700 Comp. A	Hardener PUR 5 Comp. B
Colour		blue	blue	brown
Mixing ratio	p. b. w.		100	15
Viscosity at 25°C	mPas	900 ± 100	3000 ± 600	20 ± 5
Density at 20°C	g / cm ³	1,70 ± 0,05	1,75 ± 0,05	1,21 ± 0,02
Pot life 200 g / 20°C	min.	5 - 6	-	-
Curing time at RT	hrs.	1 - 2	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	40 ± 4
Flexural modulus	EN ISO 178	MPa	4500 ± 400
Flexural strength at breakage	EN ISO 178	%	1,1 ± 0,1
Compressive strength	EN ISO 604	MPa	60 ± 5
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	4 ± 0,5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	78 ± 3
Shore hardness	DIN 53505	Shore D	83 ± 3
Coefficient of linear expansion	DIN 53752	10 ⁻⁶ K ⁻¹	-
Linear shrinkage	internal	%	ca. 0,15

Sales units (packages)

Packing size	B-Pack	SG 700 / PUR 5	Resin 10 x 1,000 kg / Hardener 10 x 0,150 kg = 11,500 kg
Units	Resin	SG 700 Comp. A	8,000 kg / 25,000 kg / 50,000 kg
	Hardener	PUR 5 Comp. B	1,000 kg / 6,000 kg

In General

ebalta SG 700 is a two-component-Polyurethane casting resin, which cures very fast at room temperature. The very good workability and the excellent mechanical properties makes SG 700 a material with versatile application possibilities.

ebalta SG 700 A is even more abrasion-resistant, but not so well workable by machine.

Displacements, even made of wood, can be filled in.

Material should be carefully stirred up/ shaken before use.

Storing

At room temperature (18 – 25°C) and closed original containers storage life is 6 months.

Partly used containers have always to be closed and the material has to be used up 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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