

Basis	Fast curing casting system for vacuum tools
Resin	ebatemp Comp. A
Hardener	PUR 5 Comp. B
Colour	alu grey

Applications

- Vacuum forming tools
- Foundry pattern
- Negatives

Properties

- very smooth surface
- polishable
- well castable
- well workable
- aluminium filled

Processing data

Product		Mixture ebatemp / PUR 5	Resin ebatemp Comp. A	Hardener PUR 5 Comp. B
Colour		alu grey	grey	brown
Mixing ratio	p. b. w.		100	16
Viscosity at 25°C	mPas	1300 ± 300	2500 ± 500	20 ± 5
Density at 20°C	g / cm ³	1,65 ± 0,05	1,72 ± 0,05	1,21 ± 0,02
Pot life 200 g / 20°C	min.	4,5 - 5,5	-	-
Curing time at RT	hrs.	1 - 2	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	40 ± 5
Flexural elongation at break	EN ISO 178	%	1,1 ± 0,1
Flexural modulus	EN ISO 178	MPa	4700 ± 400
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	4 ± 0,5
Compressive strength	EN ISO 604	MPa	56 ± 5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	90 ± 3
Shore hardness	DIN ISO 7619-1	Shore D	80 ± 3
coefficient of thermal expansion	internal test / Dilatometer	10 ⁻⁶ K ⁻¹	-
Linear shrinkage	internal	%	ca. 0,13

Sales units (packages)

Packing size	B-Pack	ebatemp / PUR 5	resin 10 x 1,000 kg / hardener 10 x 0,160 kg = 11,600 kg
Units	Comp. A	ebatemp Comp. A	1,000 kg / 8,000 kg / 25,000 kg
	Hardener	PUR 5 Comp. B	1,000 kg / 6,000 kg

In General

ebalta ebatemp is a high-quality two-component Polyurethane casting resin, which is very suitable for the production of vacuum thermoformed mouldings. The fast casting resin, which is filled with very fine aluminium powder is very well castable and after curing very well polishable and workable.

With **ebatemp** vacuum thermoformed mouldings can be produced within 1-2 hours, these moldings show a temperature capacity of 80-90°C .

Post-curing is not necessary.

Material should be carefully stirred up/ shaken before use.

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.

Shelf life is indicated on the 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.

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.